


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> GMBU I-2-9-17				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)				
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY						<b>7. OPERATOR PHONE</b> 435 646-4825				
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052						<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-45555			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1611 FNL 2296 FEL		SWNE	2	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		1469 FNL 1924 FEL		SWNE	2	9.0 S	17.0 E	S		
At Total Depth		1194 FNL 1162 FEL		NENE	2	9.0 S	17.0 E	S		
<b>21. COUNTY</b> UINTAH			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1162			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1032			<b>26. PROPOSED DEPTH</b> MD: 6384 TVD: 6250				
<b>27. ELEVATION - GROUND LEVEL</b> 5043			<b>28. BOND NUMBER</b> B001834			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6384	15.5	J-55 LT&C	8.3	Premium Lite High Strength	303	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Mandie Crozier				<b>TITLE</b> Regulatory Tech			<b>PHONE</b> 435 646-4825			
<b>SIGNATURE</b>				<b>DATE</b> 05/24/2012			<b>EMAIL</b> mcrozier@newfield.com			
<b>API NUMBER ASSIGNED</b> 43047527600000				<b>APPROVAL</b> <div style="text-align: center;">           Permit Manager       </div>						

NEWFIELD PRODUCTION COMPANY  
GMBU I-2-9-17  
AT SURFACE: SW/NE SECTION 2, T9S, R17E  
UINTAH COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1455'
Green River	1455'
Wasatch	6185'
<b>Proposed TD</b>	<b>6384'</b>

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil)      1455' – 6185'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

#### 4. **PROPOSED CASING PROGRAM**

##### a. Casing Design: GMBU I-2-9-17

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,384'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.19

##### Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
 Pore pressure at surface casing shoe = 8.33 ppg  
 Pore pressure at prod casing shoe = 8.33 ppg  
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

##### b. Cementing Design: GMBU I-2-9-17

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,384'	Prem Lite II w/ 10% gel + 3% KCl	303 987	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

#### 5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

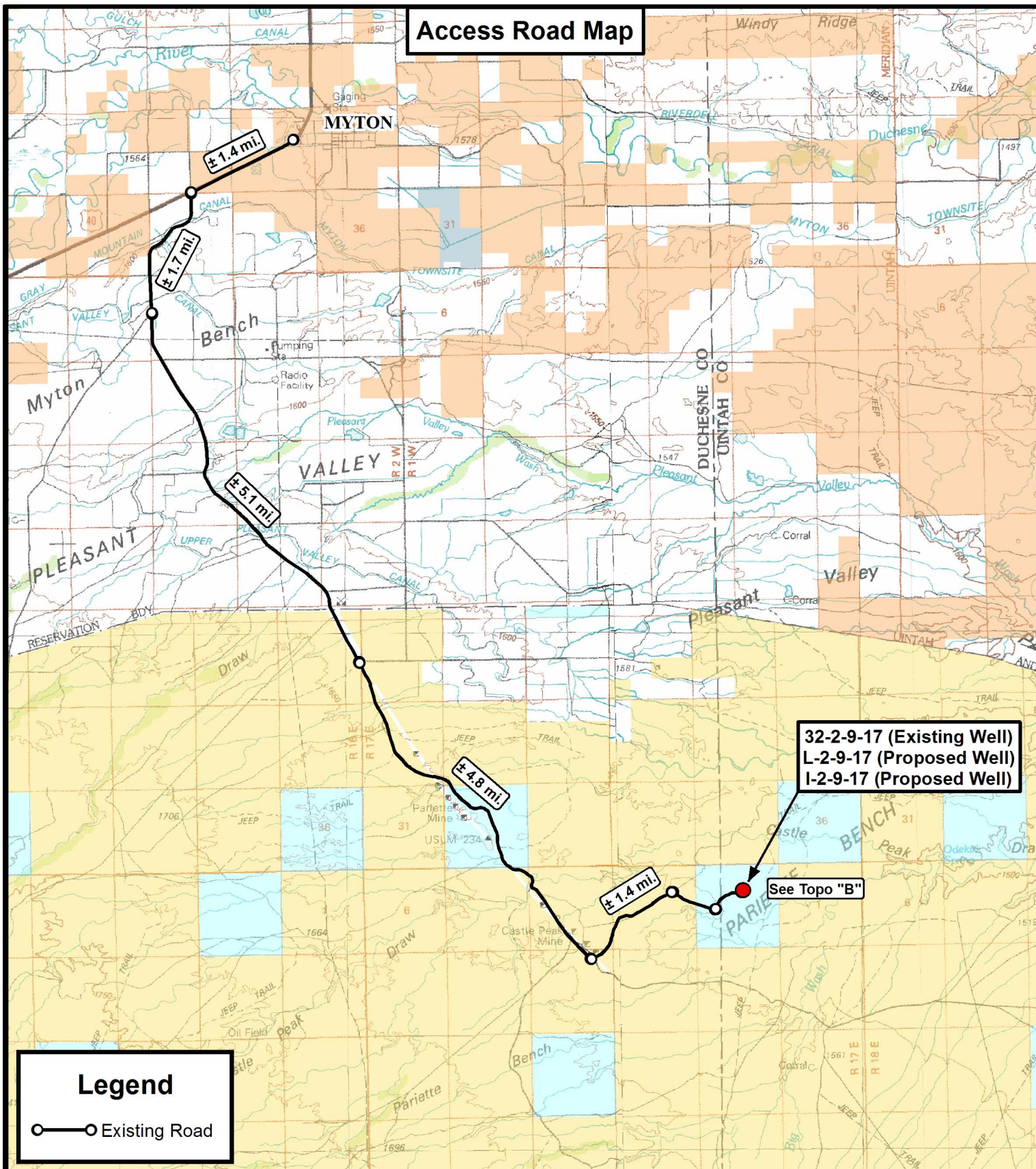
10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the fourth quarter of 2012, and take approximately seven (7) days from spud to rig release.





## Access Road Map



## Legend

○—○ Existing Road



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-17-2012		V1
SCALE:	1:100,000		



## NEWFIELD EXPLORATION COMPANY

32-2-9-17 (Existing Well)  
L-2-9-17 (Proposed Well)  
I-2-9-17 (Proposed Well)  
SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

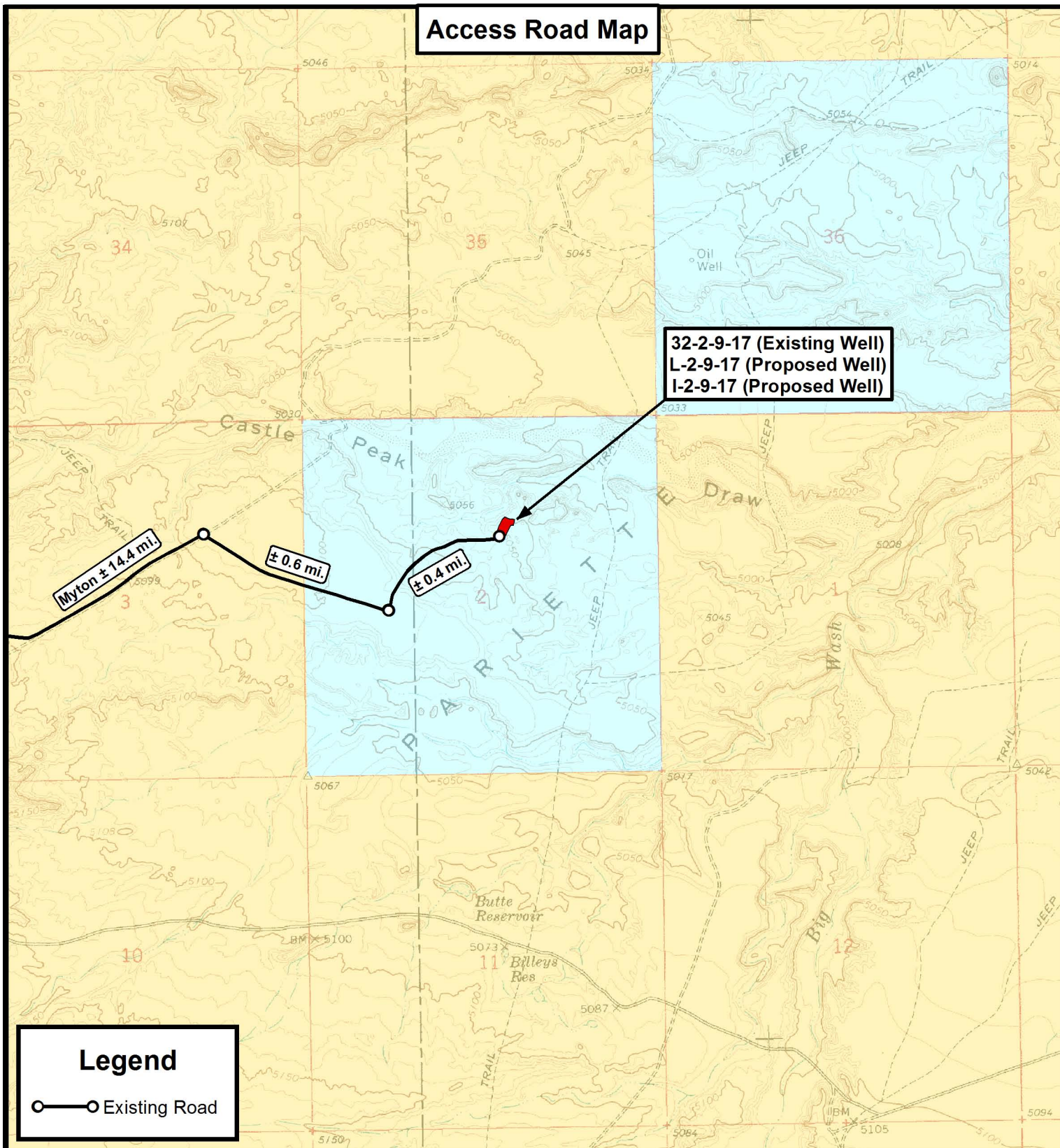
**TOPOGRAPHIC MAP**

SHEET

**A**



## Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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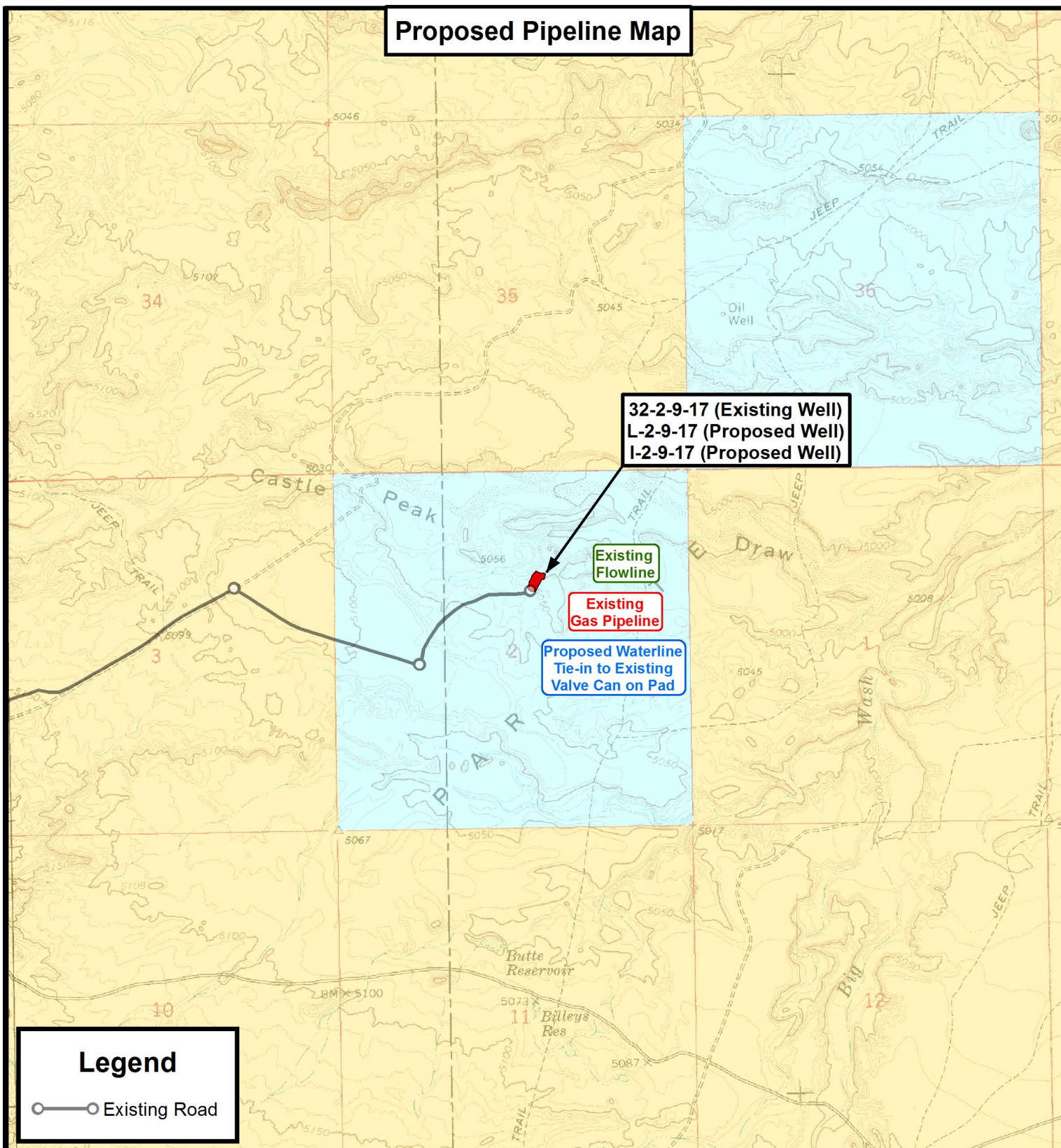
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-17-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET  
**B**



# Proposed Pipeline Map



## Legend

— Existing Road

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## NEWFIELD EXPLORATION COMPANY

32-2-9-17 (Existing Well)  
L-2-9-17 (Proposed Well)  
I-2-9-17 (Proposed Well)  
SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-17-2012		V1
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

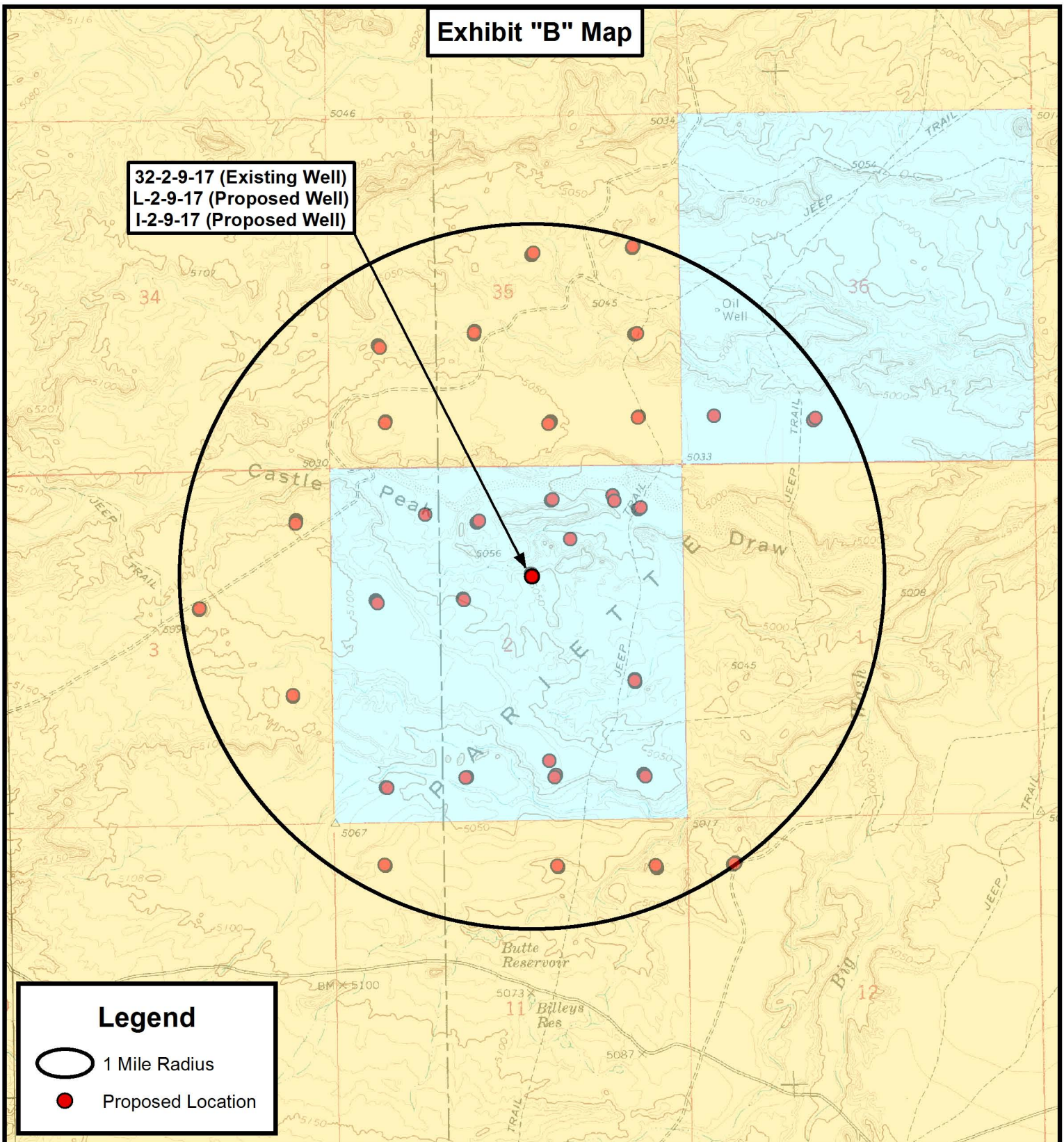
SHEET

**C**



**Exhibit "B" Map**

32-2-9-17 (Existing Well)  
 L-2-9-17 (Proposed Well)  
 I-2-9-17 (Proposed Well)

**Legend**

1 Mile Radius



Proposed Location

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**NEWFIELD EXPLORATION COMPANY**

32-2-9-17 (Existing Well)

L-2-9-17 (Proposed Well)

I-2-9-17 (Proposed Well)

SEC. 2, T9S, R17E, S.L.B.&amp;M. Uintah County, UT.

DRAWN BY: A.P.C. REVISED:

VERSION:

DATE: 01-17-2012

V1

SCALE: 1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET

**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 2 T9S, R17E  
I-2-9-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**11 January, 2012**







## Payzone Directional

### Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well I-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	I-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

Site		SECTION 2 T9S, R17E, SEC 2 T9S, R17E			
Site Position:		Northing:	7,194,800.00 ft	Latitude:	40° 3' 41.746 N
	From:	Lat/Long	Easting:	2,067,293.09 ft	Longitude:
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.98 °

Well	I-2-9-17, SHL LAT: 40 03 46.08 LONG: -109 58 21.29					
Well Position	+N/-S	438.6 ft	Northing:	7,195,248.81 ft	Latitude:	40° 3' 46.080 N
	+E/-W	604.6 ft	Easting:	2,067,890.16 ft	Longitude:	109° 58' 21.290 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,055.0 ft	Ground Level:	5,043.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/11/2012	11.21	65.81	52,240

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	4,925.0	0.0	0.0	69.11

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,468.9	13.03	69.11	1,461.4	35.1	91.9	1.50	1.50	0.00	69.11	
5,024.1	13.03	69.11	4,925.0	321.0	841.0	0.00	0.00	0.00	0.00	I-2-9-17 TGT
6,384.1	13.03	69.11	6,250.0	430.3	1,127.5	0.00	0.00	0.00	0.00	



## Payzone Directional

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well I-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	I-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	69.11	700.0	0.5	1.2	1.3	1.50	1.50	0.00
800.0	3.00	69.11	799.9	1.9	4.9	5.2	1.50	1.50	0.00
900.0	4.50	69.11	899.7	4.2	11.0	11.8	1.50	1.50	0.00
1,000.0	6.00	69.11	999.3	7.5	19.5	20.9	1.50	1.50	0.00
1,100.0	7.50	69.11	1,098.6	11.7	30.5	32.7	1.50	1.50	0.00
1,200.0	9.00	69.11	1,197.5	16.8	43.9	47.0	1.50	1.50	0.00
1,300.0	10.50	69.11	1,296.1	22.8	59.8	64.0	1.50	1.50	0.00
1,400.0	12.00	69.11	1,394.2	29.8	78.0	83.5	1.50	1.50	0.00
1,468.9	13.03	69.11	1,461.4	35.1	91.9	98.4	1.50	1.50	0.00
1,500.0	13.03	69.11	1,491.7	37.6	98.5	105.4	0.00	0.00	0.00
1,600.0	13.03	69.11	1,589.1	45.6	119.6	128.0	0.00	0.00	0.00
1,700.0	13.03	69.11	1,686.6	53.7	140.6	150.5	0.00	0.00	0.00
1,800.0	13.03	69.11	1,784.0	61.7	161.7	173.1	0.00	0.00	0.00
1,900.0	13.03	69.11	1,881.4	69.8	182.8	195.6	0.00	0.00	0.00
2,000.0	13.03	69.11	1,978.8	77.8	203.8	218.2	0.00	0.00	0.00
2,100.0	13.03	69.11	2,076.3	85.8	224.9	240.7	0.00	0.00	0.00
2,200.0	13.03	69.11	2,173.7	93.9	246.0	263.3	0.00	0.00	0.00
2,300.0	13.03	69.11	2,271.1	101.9	267.0	285.8	0.00	0.00	0.00
2,400.0	13.03	69.11	2,368.5	110.0	288.1	308.4	0.00	0.00	0.00
2,500.0	13.03	69.11	2,466.0	118.0	309.2	330.9	0.00	0.00	0.00
2,600.0	13.03	69.11	2,563.4	126.0	330.2	353.5	0.00	0.00	0.00
2,700.0	13.03	69.11	2,660.8	134.1	351.3	376.0	0.00	0.00	0.00
2,800.0	13.03	69.11	2,758.2	142.1	372.4	398.6	0.00	0.00	0.00
2,900.0	13.03	69.11	2,855.7	150.2	393.5	421.1	0.00	0.00	0.00
3,000.0	13.03	69.11	2,953.1	158.2	414.5	443.7	0.00	0.00	0.00
3,100.0	13.03	69.11	3,050.5	166.3	435.6	466.2	0.00	0.00	0.00
3,200.0	13.03	69.11	3,147.9	174.3	456.7	488.8	0.00	0.00	0.00
3,300.0	13.03	69.11	3,245.4	182.3	477.7	511.3	0.00	0.00	0.00
3,400.0	13.03	69.11	3,342.8	190.4	498.8	533.9	0.00	0.00	0.00
3,500.0	13.03	69.11	3,440.2	198.4	519.9	556.4	0.00	0.00	0.00
3,600.0	13.03	69.11	3,537.6	206.5	540.9	579.0	0.00	0.00	0.00
3,700.0	13.03	69.11	3,635.1	214.5	562.0	601.6	0.00	0.00	0.00
3,800.0	13.03	69.11	3,732.5	222.5	583.1	624.1	0.00	0.00	0.00
3,900.0	13.03	69.11	3,829.9	230.6	604.1	646.7	0.00	0.00	0.00
4,000.0	13.03	69.11	3,927.3	238.6	625.2	669.2	0.00	0.00	0.00
4,100.0	13.03	69.11	4,024.7	246.7	646.3	691.8	0.00	0.00	0.00
4,200.0	13.03	69.11	4,122.2	254.7	667.4	714.3	0.00	0.00	0.00
4,300.0	13.03	69.11	4,219.6	262.8	688.4	736.9	0.00	0.00	0.00
4,400.0	13.03	69.11	4,317.0	270.8	709.5	759.4	0.00	0.00	0.00
4,500.0	13.03	69.11	4,414.4	278.8	730.6	782.0	0.00	0.00	0.00
4,600.0	13.03	69.11	4,511.9	286.9	751.6	804.5	0.00	0.00	0.00
4,700.0	13.03	69.11	4,609.3	294.9	772.7	827.1	0.00	0.00	0.00
4,800.0	13.03	69.11	4,706.7	303.0	793.8	849.6	0.00	0.00	0.00
4,900.0	13.03	69.11	4,804.1	311.0	814.8	872.2	0.00	0.00	0.00
5,000.0	13.03	69.11	4,901.6	319.0	835.9	894.7	0.00	0.00	0.00
5,024.1	13.03	69.11	4,925.0	321.0	841.0	900.1	0.00	0.00	0.00
5,100.0	13.03	69.11	4,999.0	327.1	857.0	917.3	0.00	0.00	0.00



## Payzone Directional

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well I-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	I-2-9-17 @ 5055.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	I-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

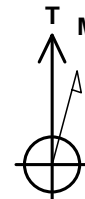
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	13.03	69.11	5,096.4	335.1	878.0	939.8	0.00	0.00	0.00
5,300.0	13.03	69.11	5,193.8	343.2	899.1	962.4	0.00	0.00	0.00
5,400.0	13.03	69.11	5,291.3	351.2	920.2	984.9	0.00	0.00	0.00
5,500.0	13.03	69.11	5,388.7	359.3	941.3	1,007.5	0.00	0.00	0.00
5,600.0	13.03	69.11	5,486.1	367.3	962.3	1,030.0	0.00	0.00	0.00
5,700.0	13.03	69.11	5,583.5	375.3	983.4	1,052.6	0.00	0.00	0.00
5,800.0	13.03	69.11	5,681.0	383.4	1,004.5	1,075.1	0.00	0.00	0.00
5,900.0	13.03	69.11	5,778.4	391.4	1,025.5	1,097.7	0.00	0.00	0.00
6,000.0	13.03	69.11	5,875.8	399.5	1,046.6	1,120.2	0.00	0.00	0.00
6,100.0	13.03	69.11	5,973.2	407.5	1,067.7	1,142.8	0.00	0.00	0.00
6,200.0	13.03	69.11	6,070.6	415.5	1,088.7	1,165.3	0.00	0.00	0.00
6,300.0	13.03	69.11	6,168.1	423.6	1,109.8	1,187.9	0.00	0.00	0.00
6,384.1	13.03	69.11	6,250.0	430.3	1,127.5	1,206.9	0.00	0.00	0.00



API Well Number: 43047527600000



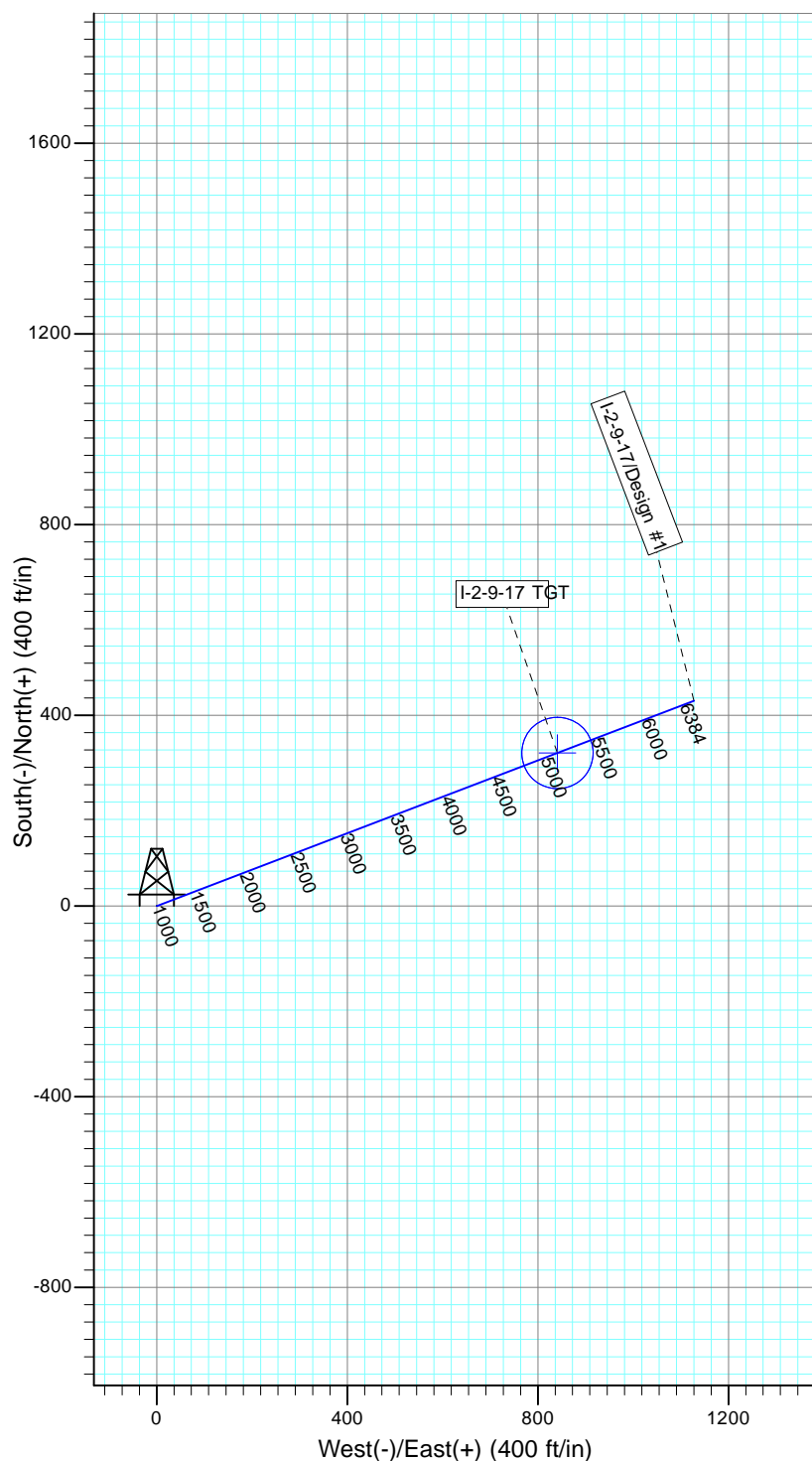
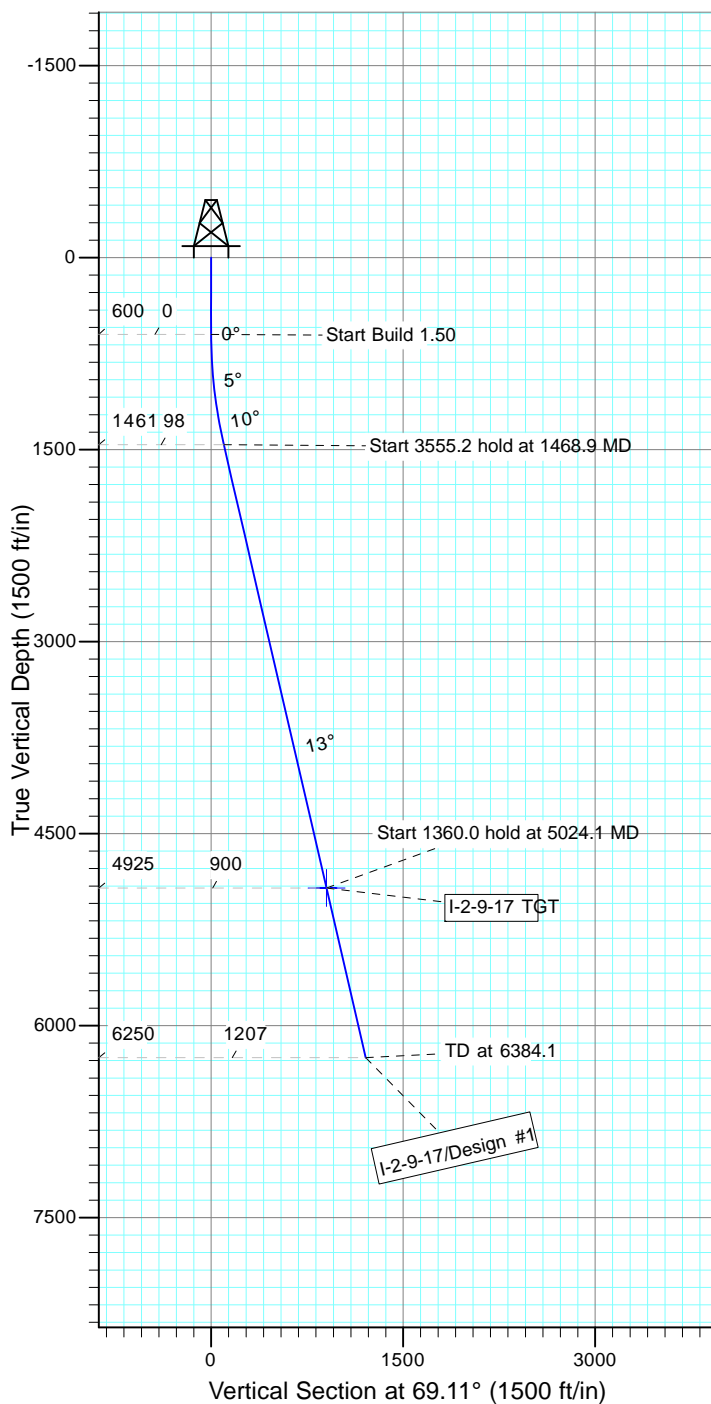
Project: USGS Myton SW (UT)  
 Site: SECTION 2 T9S, R17E  
 Well: I-2-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.21°

Magnetic Field  
 Strength: 52239.6snT  
 Dip Angle: 65.81°  
 Date: 1/11/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
I-2-9-17 TGT	4925.0	321.0	841.0	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1468.9	13.03	69.11	1461.4	35.1	91.9	1.50	69.11	98.4	
4	5024.1	13.03	69.11	4925.0	321.0	841.0	0.00	0.00	900.1	I-2-9-17 TGT
5	6384.1	13.03	69.11	6250.0	430.3	1127.5	0.00	0.00	1206.9	



**NEWFIELD PRODUCTION COMPANY  
GMBU I-2-9-17  
AT SURFACE: SW/NE SECTION 2, T9S, R17E  
UINTAH COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU I-2-9-17 located in the SW 1/4 NE 1/4 Section 2, T9S, R17E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.6 miles  $\pm$  to it's junction with an existing road to the northeast; proceed northeasterly - 1.4 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly - 0.6 miles  $\pm$  to it's junction with an existing road to the northeast; proceed in a northeasterly direction - 0.4 miles  $\pm$  to the existing 32-2-9-17 well pad.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 32-2-9-17 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**



There are no ancillary facilities planned for at the present time and none foreseen in the near future.

**9. WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

**10. PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

**11. SURFACE OWNERSHIP – State of Utah.**

**11. OTHER ADDITIONAL INFORMATION :**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### **Water Disposal**

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU I-2-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU I-2-9-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

#### **13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

##### Representative

Name: Corie Miller  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #I-2-9-17, Section 2, Township 9S, Range 17E: Lease ML-45555 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #B001834.

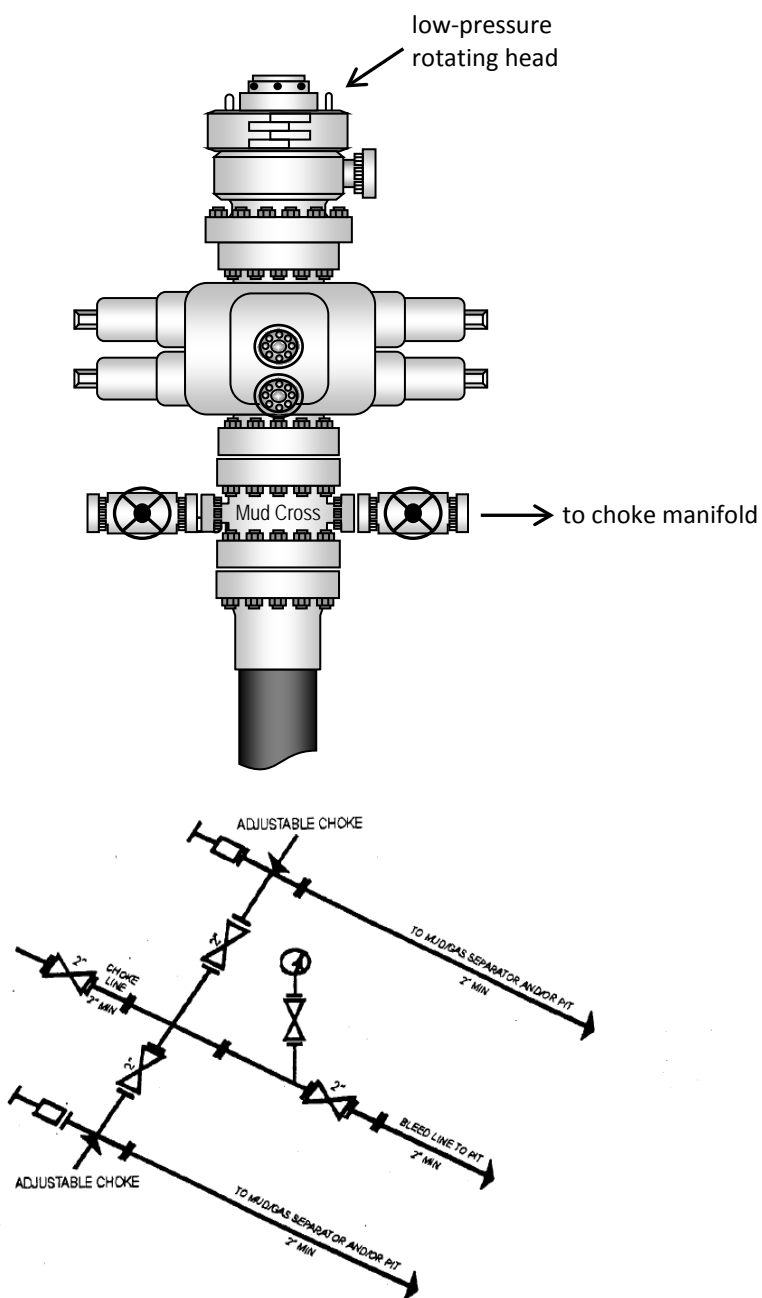
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

5/23/12  
Date

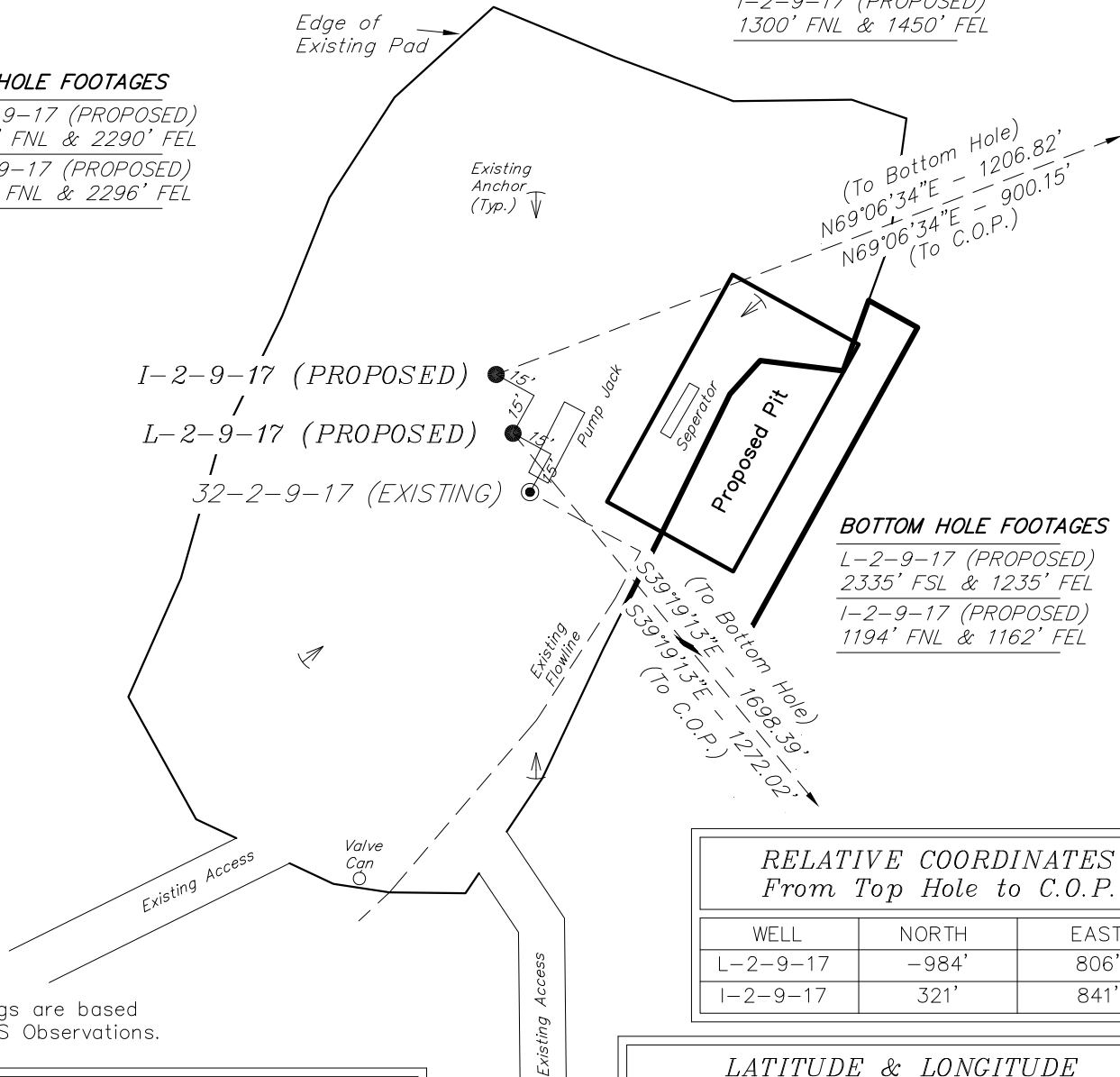
\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company



## Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

**NEWFIELD EXPLORATION COMPANY****WELL PAD INTERFERENCE PLAT****32-2-9-17 (Existing Well)****L-2-9-17 (Proposed Well)****I-2-9-17 (Proposed Well)****Pad Location: SWNE Section 2, T9S, R17E, S.L.B.&M.****CENTER OF PATTERN FOOTAGES**L-2-9-17 (PROPOSED)  
2625' FNL & 1500' FELI-2-9-17 (PROPOSED)  
1300' FNL & 1450' FEL**TOP HOLE FOOTAGES**L-2-9-17 (PROPOSED)  
1632' FNL & 2290' FELI-2-9-17 (PROPOSED)  
1611' FNL & 2296' FEL**BOTTOM HOLE FOOTAGES**L-2-9-17 (PROPOSED)  
2335' FSL & 1235' FELI-2-9-17 (PROPOSED)  
1194' FNL & 1162' FEL**RELATIVE COORDINATES  
From Top Hole to C.O.P.**

WELL	NORTH	EAST
L-2-9-17	-984'	806'
I-2-9-17	321'	841'

**RELATIVE COORDINATES  
From Top Hole to Bottom Hole**

WELL	NORTH	EAST
L-2-9-17	-1,314'	1,076'
I-2-9-17	430'	1,128'

**LATITUDE & LONGITUDE  
Surface position of Wells (NAD 83)**

WELL	LATITUDE	LONGITUDE
32-2-9-17	40° 03' 45.68"	109° 58' 21.15"
L-2-9-17	40° 03' 45.88"	109° 58' 21.22"
I-2-9-17	40° 03' 46.08"	109° 58' 21.29"

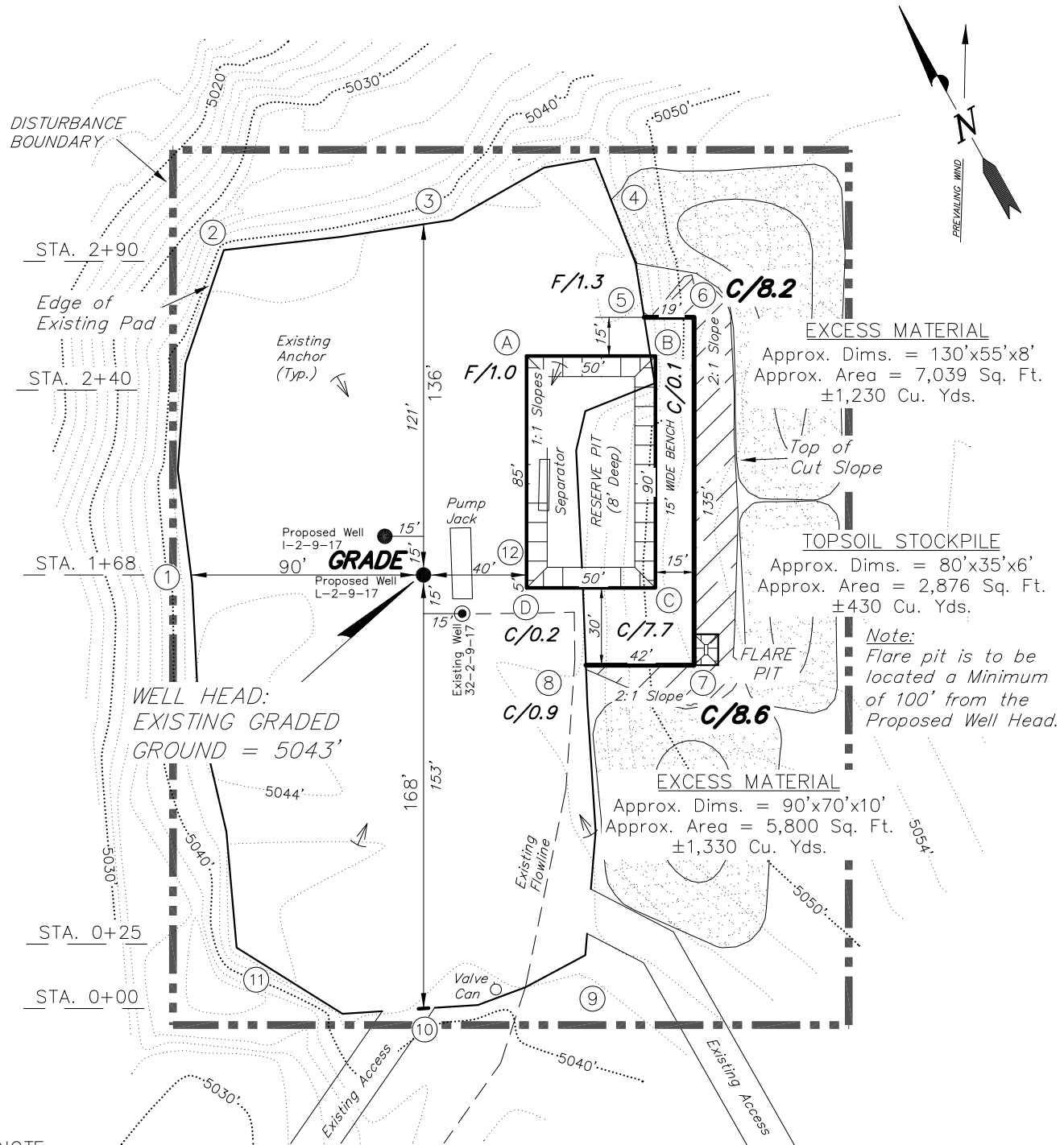
SURVEYED BY: D.G. DATE SURVEYED: 5-27-11 VERSION: V1

DRAWN BY: R.B.T. DATE DRAWN: 10-17-11

SCALE: 1" = 60' REVISED:

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED: May 24, 2012**

**NEWFIELD EXPLORATION COMPANY****LOCATION LAYOUT****32-2-9-17 (Existing Well)****L-2-9-17 (Proposed Well)****I-2-9-17 (Proposed Well)***Pad Location: SWNE Section 2, T9S, R17E, S.L.B.&M.***NOTE:**

The topsoil & excess material areas are calculated as being mounds containing 2,990 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

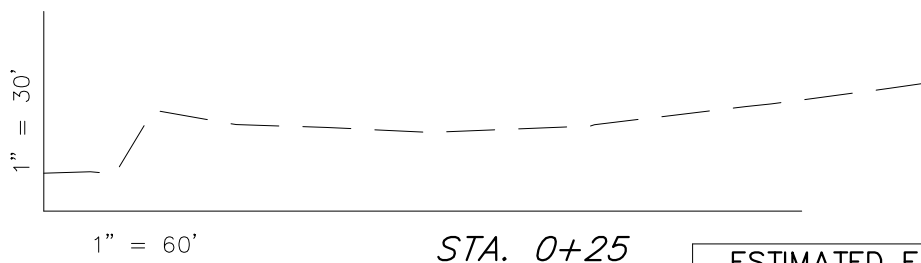
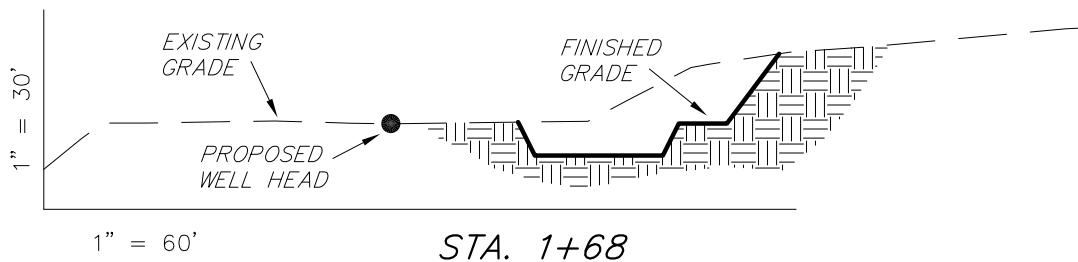
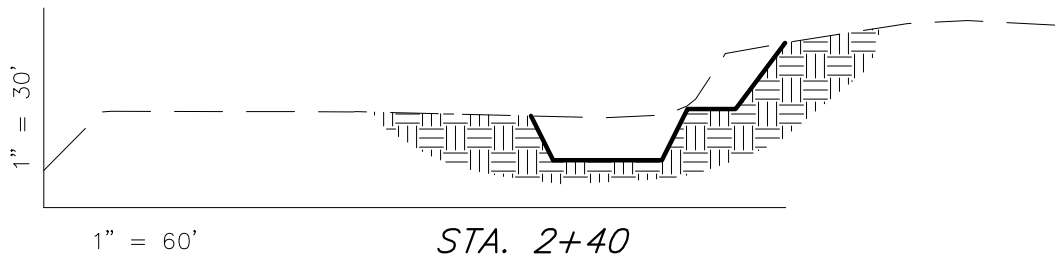
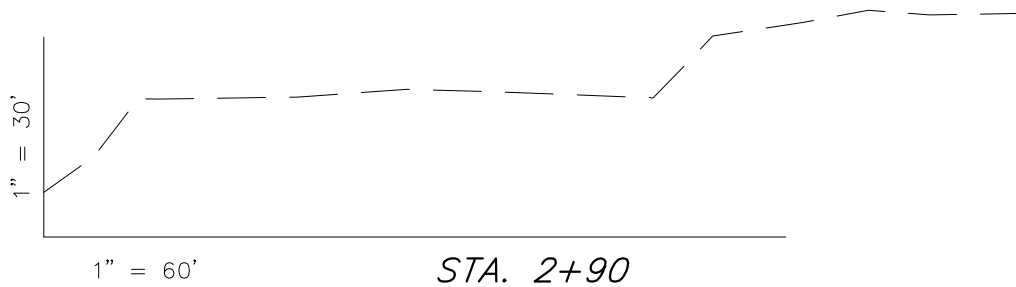
**Note:**

Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: C.D.S.	DATE SURVEYED: 09-26-11	VERSION:
DRAWN BY: R.B.T.	DATE DRAWN: 10-17-11	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED: May 24, 2012**

***NEWFIELD EXPLORATION COMPANY******CROSS SECTIONS******32-2-9-17 (Existing Well)******L-2-9-17 (Proposed Well)******I-2-9-17 (Proposed Well)******Pad Location: SWNE Section 2, T9S, R17E, S.L.B.&M.***

NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 2:1

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,360	70	Topsoil is not included in Pad Cut	1,290
PIT	1,030	0		1,030
TOTALS	2,390	70	390	2,320

SURVEYED BY: C.D.S.	DATE SURVEYED: 09-26-11	VERSION:
DRAWN BY: R.B.T.	DATE DRAWN: 10-17-11	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: May 24, 2012

RECEIVED: May 24, 2012



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-52760	GMBU I-2-9-17	Sec 02 T09S R17E 1611 FNL 2296 FEL BHL Sec 02 T09S R17E 1194 FNL 1162 FEL
43-013-51447	GMBU N-16-9-16	Sec 16 T09S R16E 2111 FSL 1881 FWL BHL Sec 16 T09S R16E 2395 FNL 1187 FWL
43-047-52761	GMBU L-2-9-17	Sec 02 T09S R17E 1632 FNL 2290 FEL BHL Sec 02 T09S R17E 2335 FSL 1235 FEL
43-013-51448	GMBU G-16-9-16	Sec 16 T09S R16E 2081 FNL 0759 FWL BHL Sec 16 T09S R16E 1039 FNL 1598 FWL
43-047-52762	GMBU M-2-9-17	Sec 02 T09S R17E 2067 FSL 1672 FWL BHL Sec 02 T09S R17E 2500 FNL 2271 FEL
43-013-51449	GMBU Q-16-9-16	Sec 16 T09S R16E 2096 FSL 1866 FWL BHL Sec 16 T09S R16E 1252 FSL 0916 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.05.30 11:42:03 -06'00'

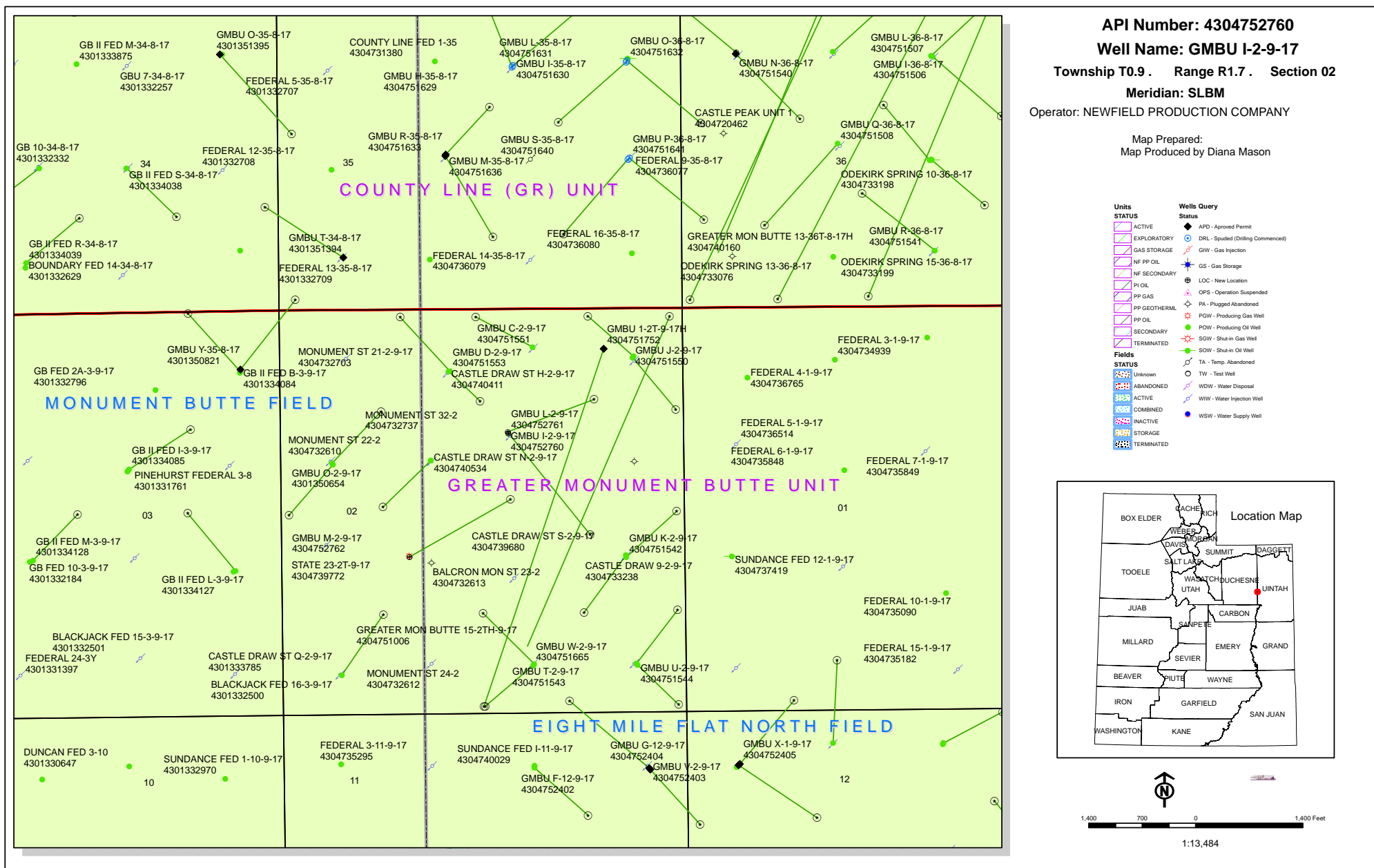
RECEIVED: May 30, 2012

API Well Number: 43047527600000

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:5-30-12

RECEIVED: May 30, 2012



VIA ELECTRONIC DELIVERY



May 31, 2012

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**GMBU I-2-9-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 2: SWNE (ML-45555)  
1611' FNL 2296' FEL

At Target: T9S-R17E Section 2: NENE (ML-45555)  
1194' FNL 1162' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 5/24/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at [lburget@newfield.com](mailto:lburget@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget  
Land Associate

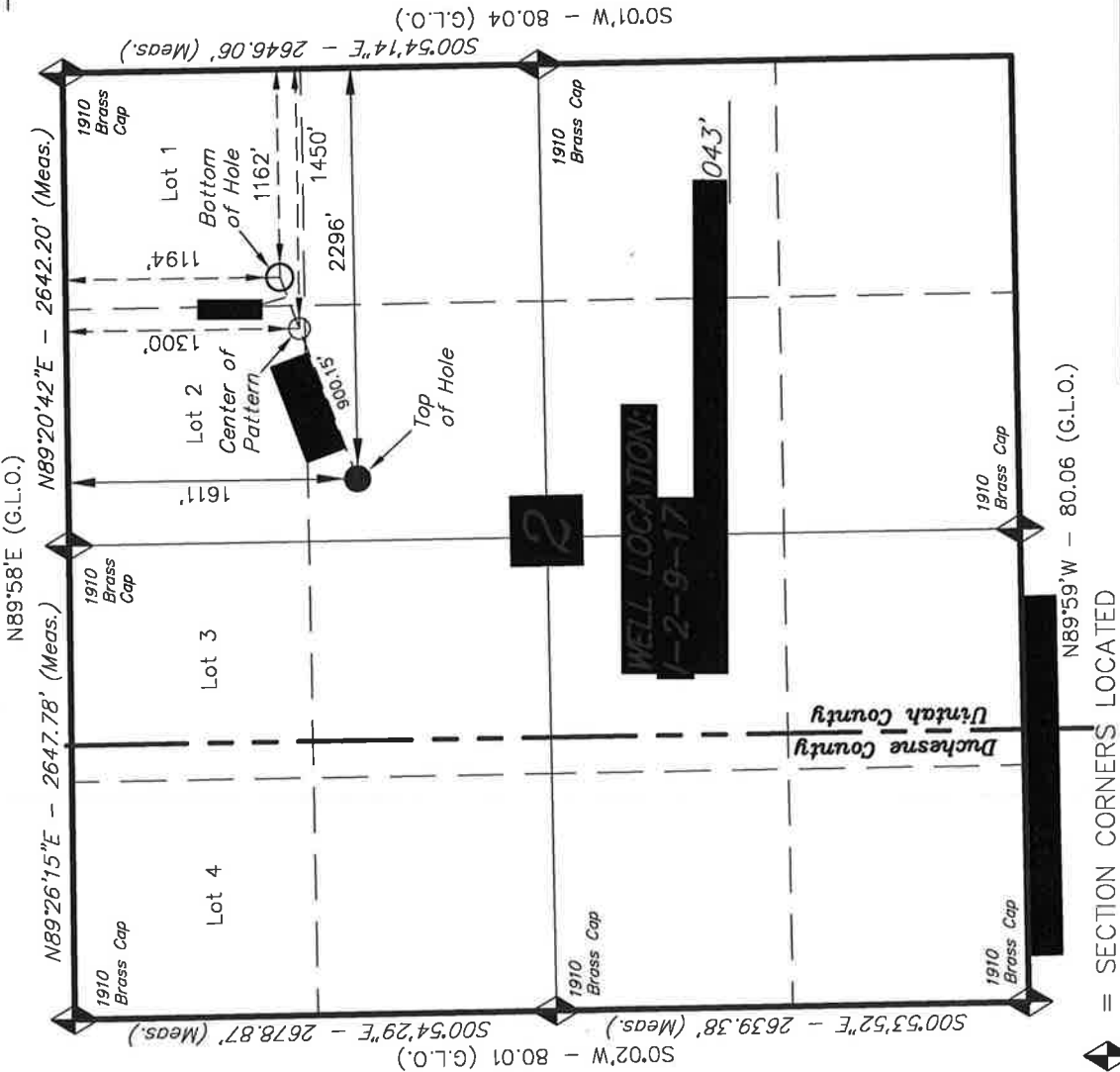
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER GMBU I-2-9-17				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input type="radio"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630, Myton, UT, 84052						9. OPERATOR E-MAIL mcrozler@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-45555			11. MINERAL OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input checked="" type="radio"/> FEE <input type="radio"/>			12. SURFACE OWNERSHIP FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input checked="" type="radio"/> FEE <input type="radio"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>			19. SLANT VERTICAL <input type="radio"/> DIRECTIONAL <input checked="" type="radio"/> HORIZONTAL <input type="radio"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	1611 FNL 2296 FEL		SWNE	2	9.0 S	17.0 E	S			
Top of Uppermost Producing Zone	1469 FNL 1924 FEL		SWNE	2	9.0 S	17.0 E	S			
At Total Depth	1194 FNL 1162 FEL		NENE	2	9.0 S	17.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1162		23. NUMBER OF ACRES IN DRILLING UNIT 20					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1032		26. PROPOSED DEPTH MD: 6384 TVD: 6250					
27. ELEVATION - GROUND LEVEL 5043			28. BOND NUMBER B001834		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478					
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6384	15.5	J-55 LT&C	8.3	Premium Lite High Strength	303	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier			TITLE Regulatory Tech			PHONE 435 646-4825				
SIGNATURE			DATE 05/24/2012			EMAIL mcrozler@newfield.com				
API NUMBER ASSIGNED 43047527600000					APPROVAL					

Received: May 24, 2012



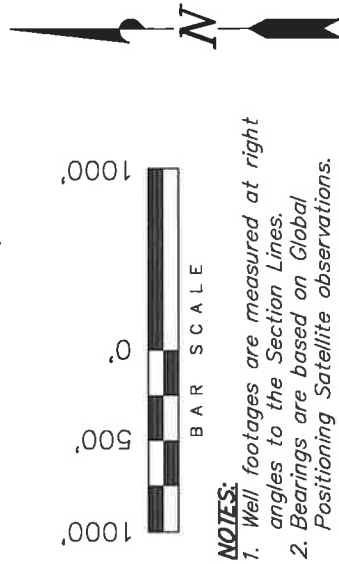
# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



WELL LOCATION, 1-2-9-17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 1-2-9-17, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.



- NOTES:**
1. Well footages are measured at right angles to the Section Lines.
  2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

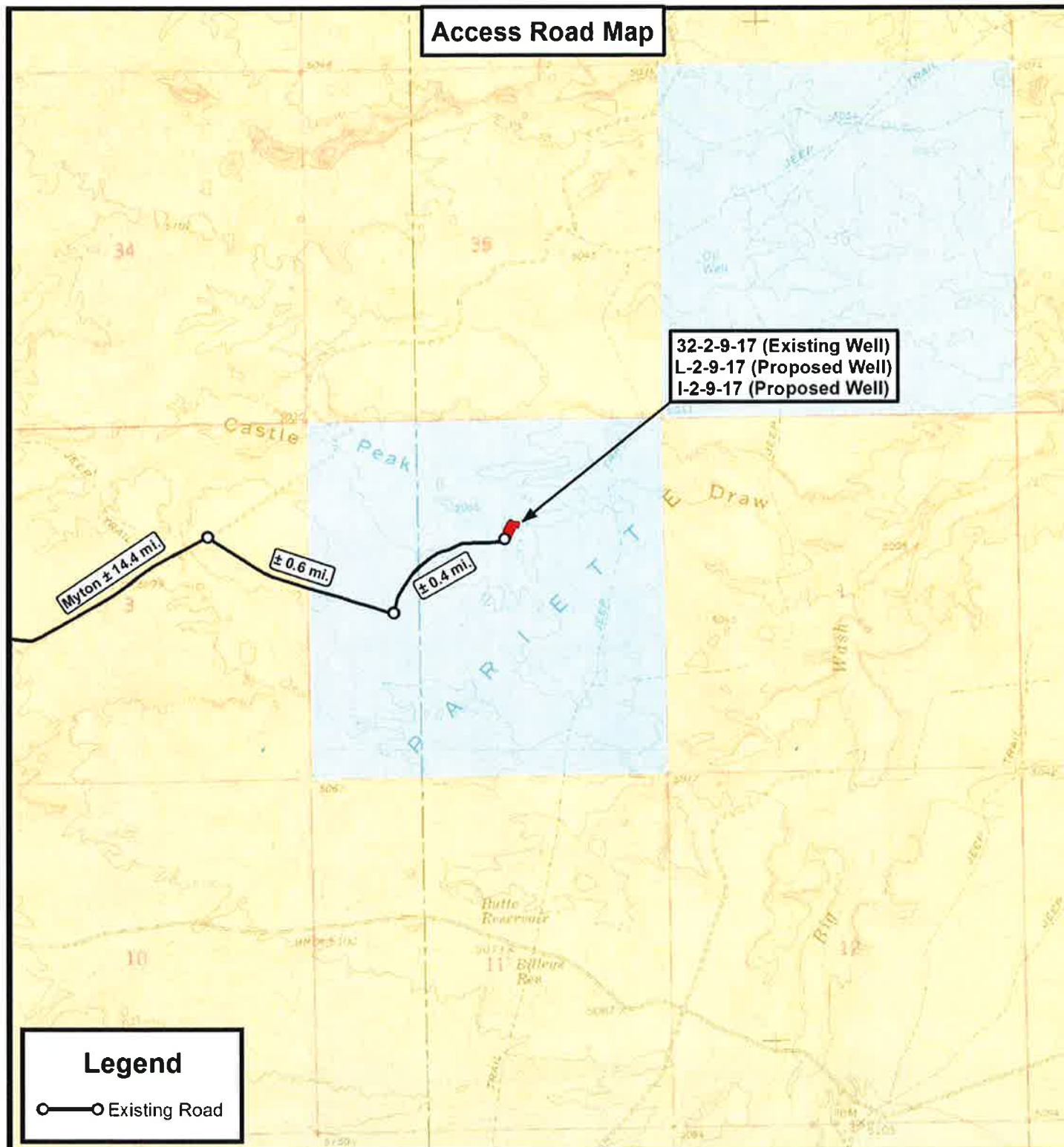
STACY W. STACY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 189377  
STATE OF UTAH  
01-20-12

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 09-26-11	SURVEYED BY: C.D.S.	VERSION:
DATE DRAWN: 01-20-12	DRAWN BY: M.W.	V1
REVISED:	SCALE: 1" = 1000'	

**1-2-9-17**  
(Surface Location) **NAD 83**  
LATITUDE = 40° 03' 46.08"  
LONGITUDE = 109° 58' 21.29"

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

32-2-9-17 (Existing Well)  
L-2-9-17 (Proposed Well)  
I-2-9-17 (Proposed Well)

SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-17-2012		V1
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET

**B**

**Received: May 24, 2012**

**From:** Jim Davis  
**To:** APD APPROVAL; Corie Miller; mcrozier@newfield.com; teaton@newfield.com  
**CC:** Bonner, Ed; Garrison, LaVonne  
**Date:** 6/22/2012 12:59 PM  
**Subject:** APD approvals (9 for Newfield)

The following APDs have been approved by SITLA. Most of these are on existing pads that will involve no new surface disturbance. The wells which will involve new surface disturbance have been granted arch and paleo clearance.

No New Disturbance:

GMBU O-31-8-18 (4304752592)  
GMBU P-31-8-18 (4304752597)  
GMBU F-31-8-18 (4304752593)  
GMBU Y-30-8-18 (4304752602)  
GMBU L-2-9-17 (4304752761)  
GMBU I-2-9-17 (4304752760)  
GMBU D-21-9-17 (4301351351)

New surface disturbance:

GMBU 1-36-8-18H (4304752433)  
GMBU 3-36-8-18H (4304752434)

-Jim Davis

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

RECEIVED: June 22, 2012

Well Name	NEWFIELD PRODUCTION COMPANY GMBU I-2-9-17 4304752760000			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	6384		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.3		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2745	8.3		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	129		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	93	YES	air/mist system
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO	OK
Required Casing/BOPE Test Pressure=		300	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

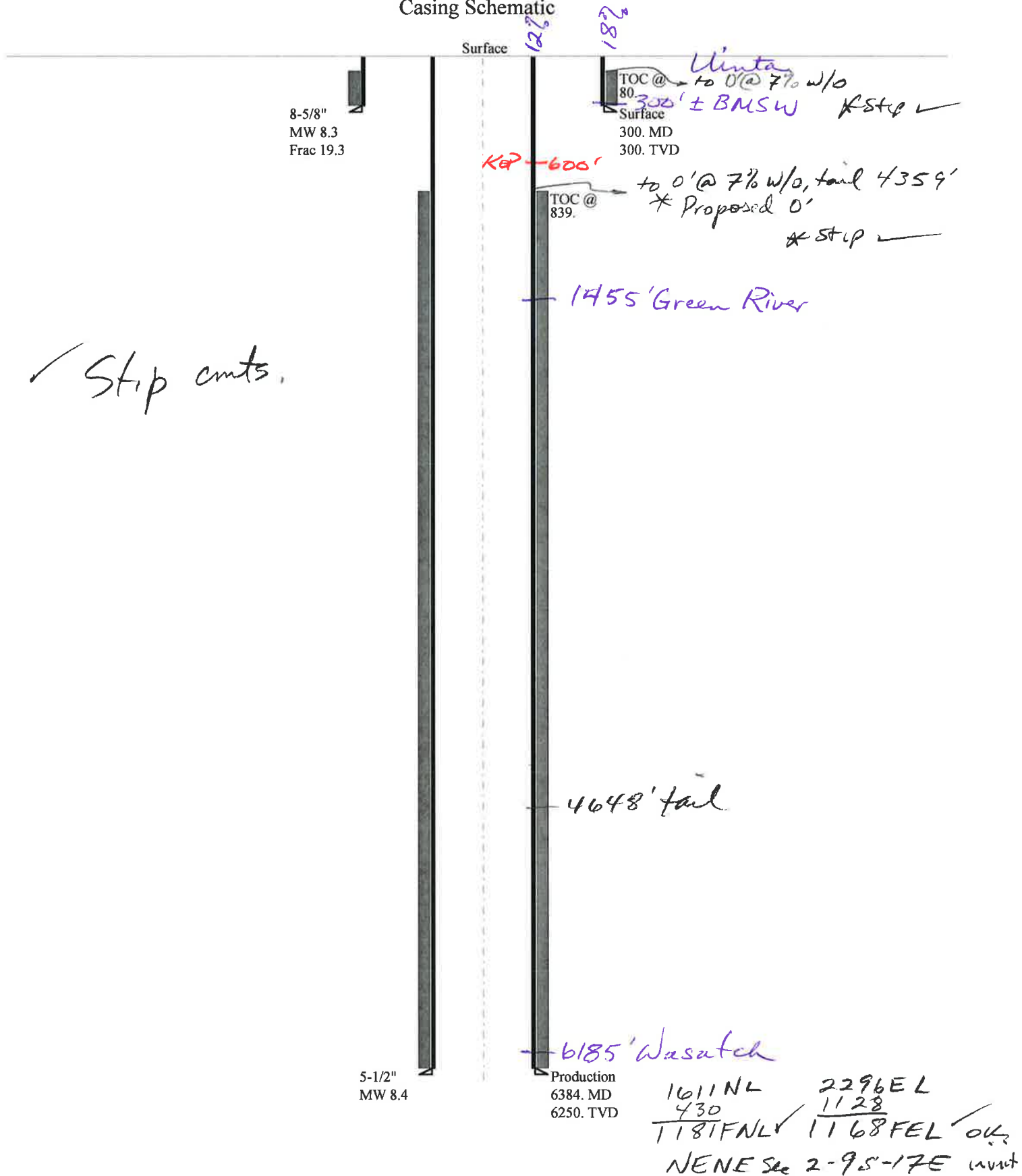
Calculations	Prod String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2755		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1989	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1351	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1417	NO	OK
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

43047527600000 GMBU I-2-9-17

Casing Schematic





Well name:	<b>43047527600000 GMBU I-2-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	<b>Surface</b>	Project ID:	<b>43-047-52760</b>
Location:	<b>UINTAH COUNTY</b>		

**Design parameters:****Collapse**

Mud weight: 8.300 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 78 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 80 ft

**Burst**

Max anticipated surface pressure: 234 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 300 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 263 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 6,250 ft  
Next mud weight: 8.400 ppg  
Next setting BHP: 2,727 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 300 ft  
Injection pressure: 300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	1544
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	129	1370	10.591	300	2950	9.83	7.2	244	33.89 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 15, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43047527600000 GMBU I-2-9-17</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Production	Project ID: 43-047-52760
Location:	UINTAH COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 161 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 839 ft

**Burst**

Max anticipated surface pressure: 1,352 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,727 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

**Directional Info - Build & Hold**

Kick-off point 600 ft  
Departure at shoe: 1207 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 13.03 °

Tension is based on air weight.

Neutral point: 5,569 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6384	5.5	15.50	J-55	LT&C	6250	6384	4.825	22542
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2727	4040	1.481	2727	4810	1.76	96.9	217	2.24 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 15, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6250 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU I-2-9-17  
**API Number** 43047527600000      **APD No** 6059    **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4 SWNE    Sec 2   Tw 9.0S   Rng 17.0E   1611 FNL 2296 FEL**  
**GPS Coord (UTM)** 587622 4435233      **Surface Owner**

### **Participants**

C. Miller, – Newfield; C. Jensen, – DOGM ; J. Davis- SITLA; A. Hansen- DWR;

### **Regional/Local Setting & Topography**

New hole on existing pad. Host well 32-2T-9-17 API # 43047-32737

This location is on the Parriette Bench in the Monument Butte field 14 road miles south of Myton, Utah Near the Castle Peak Draw area . The Castle Peak is found about 1 mile west of the loation. The topography is relatively flat with slopes of around 2% or less. Erosion has created a network of draws and drainages that are deeply cut. Drainages in the area are eventual tributaries of Snyder reservoir. The surrounding lowlands south are generally uncharacteristically green. This is good habitat for Accipiters. Vegetation is a Deseret shrub type. Identified or expected vegetation consisted of black sagebrush, shadscale, greasewood, mustard weed, rabbit brush, horsebrush, broom snakeweed, and spring annuals.

### **Surface Use Plan**

**Current Surface Use**  
Existing Well Pad

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width 200   Length 300</b>	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

adjacent habitat contains forbs that may be suitable browse for deer, antelope, prairie dogs and rabbits, though none were observed.  
Disturbed soils do not support habitat for wildlife. DWR had no comment / issues

#### **Soil Type and Characteristics**

imported gravels and disturbed soils with no profile

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit**

Site-Specific Factors		Site Ranking
<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	300 to 1000	2
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>		20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		47 1 Sensitivity Level

**Characteristics / Requirements**

A 40' x 80' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. Newfield commonly uses a 30 mil liner. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** N**Other Observations / Comments**Chris Jensen  
Evaluator6/8/2012  
Date / Time



# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6059	43047527600000	SITLA	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	GMBU I-2-9-17		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	SWNE 2 9S 17E S 1611 FNL 2296 FEL GPS Coord (UTM) 587615E 4435234N				

#### Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The the base of the moderately saline water at this location is estimated to be at approximately 300 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement programs should adequately protect ground water in the area.

Brad Hill  
APD Evaluator

6/19/2012  
Date / Time

#### Surface Statement of Basis

The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect steep slopes from erosion, sedimentation and stability issues from corners 4 to 6 on the southern side of pad

Chris Jensen  
Onsite Evaluator

6/8/2012  
Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/24/2012

API NO. ASSIGNED: 43047527600000

WELL NAME: GMBU I-2-9-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNE 02 090S 170E

Permit Tech Review: ☒

SURFACE: 1611 FNL 2296 FEL

Engineering Review: ☒

BOTTOM: 1194 FNL 1162 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.06281

LONGITUDE: -109.97265

UTM SURF EASTINGS: 587615.00

NORTHINGS: 4435234.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-45555

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - B001834☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 437478☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit: GMBU (GRRV)

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
12 - Cement Volume (3) - hmadonald  
15 - Directional - dmason  
25 - Surface Casing - hmadonald  
27 - Other - bhill

RECEIVED: September 12, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU I-2-9-17  
**API Well Number:** 43047527600000  
**Lease Number:** ML-45555  
**Surface Owner:** STATE  
**Approval Date:** 9/12/2012

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 0' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:



**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By  
Branden Arnold Phone Number 435-401-0223

Well Name/Number GMBU I-2-9-17

Qtr/Qtr SW/NE Section 2 Township 9S Range 17

Lease Serial Number ML-45555

API Number 43-047-52760

Spud Notice – Spud is the initial spudding of the well, not drilling  
out below a casing string.

Date/Time 5/17/13 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing  
times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 5/17/13 3:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

MAY 16 2013

DIV. OF OIL, GAS & MINING

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-45555
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GMBU I-2-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1611 FNL 2296 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 02 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047527600000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/17/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  On 5/17/13 Ross # 29 spud and drilled 345' of 12 1/4" hole, P/U and run 8 jts of 8 5/8" casing set 339.04'KB. On 5/20/13 cement w/ BH w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 yield. Returned 4bbls to pit, bump plug to 515psi, BLM and State were notified of spud via email.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> May 31, 2013		
<b>NAME (PLEASE PRINT)</b> Cherei Neilson	<b>PHONE NUMBER</b> 435 646-4883	<b>TITLE</b> Drilling Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/30/2013	

Casing / Liner Detail

Well	GMBU I-2-9-17
Prospect	Monument Butte
Foreman	
Run Date:	
String Type	Conductor, 14", 36.75#, H-40, W (Welded)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
-------	--------	-----	-------------	----	----

16.00			10' KB		
10.00	6.00		Conductro	14.000	13.500
16.00			-		

Cement Detail						
Cement Company:						
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft <sup>3</sup> )	Description - Slurry Class and Additives	
Stab-In-Job?					Cement To Surface?	
BHT:					0	
Initial Circulation Pressure:						
Initial Circulation Rate:						
Final Circulation Pressure:						
Final Circulation Rate:						
Displacement Fluid:						
Displacement Rate:						
Displacement Volume:						
Mud Returns:						
Centralizer Type And Placement:		Casing Weight Set On Slips:				



Casing / Liner Detail

Well	GMBU I-2-9-17
Prospect	Monument Butte
Foreman	
Run Date:	
String Type	Surface, 8.625", 24#, J-55, STC (Generic)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
339.04			10' KB		
10.00	1.42		Wellhead		
11.42	285.51	7	Casing	8.625	
296.93	41.21	1	Shoe Joint	8.625	
338.14	0.90		Guide Shoe	8.625	
339.04			-		

Cement Detail						
Cement Company:		BJ				
Slurry Slurry 1	# of Sacks 160	Weight (ppg) 15.8	Yield 1.17	Volume (ft³) 187.2	Description - Slurry Class and Additives Class G+2%kcl+.25#CF	
Stab-In-Job?		No			Cement To Surface?	Yes
BHT:		0			Est. Top of Cement:	0
Initial Circulation Pressure:					Plugs Bumped?	Yes
Initial Circulation Rate:					Pressure Plugs Bumped:	515
Final Circulation Pressure:					Floats Holding?	No
Final Circulation Rate:					Casing Stuck On / Off Bottom?	No
Displacement Fluid:		Water			Casing Reciprocated?	No
Displacement Rate:					Casing Rotated?	No
Displacement Volume:		18.4			CIP:	9:46
Mud Returns:					Casing Wt Prior To Cement:	
Centralizer Type And Placement:				Casing Weight Set On Slips:		
Middle of first, top of second and third for a total of three.						







BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDsi SS#2 Submitted  
By Mike Braithwaite Phone Number 435-401-8392  
Well Name/Number I-2-9-17 *GMBU*  
Qtr/Qtr SWNE Section 2 Township 9S Range 17E  
Lease Serial Number ML-45555  
API Number 43-047-52760

Rig Move Notice – Move drilling rig to new location.

Date/Time 6/1/2013 600 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time 6/1/2013 1100 AM ☒ PM ☐

Remarks \_\_\_\_\_

---

**RECEIVED**

**JUN 3 1 2013**

**DIV. OF OIL, GAS & MINING**

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDSI SS # 2  
Submitted By Justin Crum Phone Number 435-823-6732  
Well Name/Number GMBUT-2-9-17  
Qtr/Qtr SWNE Section 2 Township 9S Range 17E  
Lease Serial Number ML-4555  
API Number 43-047-527600000

Rig Move Notice – Move drilling rig to new location.

Date/Time 5/27/2013 12:00 AM ☐ PM ☒

BOPE

- ☒ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time 5/27/2013 6:00 AM ☐ PM ☒

Remarks \_\_\_\_\_

---

**RECEIVED**

**MAY 26 2013**

DIV. OF OIL, GAS & MINING

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDSI SS#2  
Submitted By Mike Braithwaite Phone Number 435-401-8392  
Well Name/Number I-2-9-17 GMBU  
Qtr/Qtr NENE Section 2 Township 9S Range 17E  
Lease Serial Number ML-45555  
API Number 43-047527600000

TD Notice – TD is the final drilling depth of hole.

Date/Time 6/3/2013 10:00 AM ☐ PM ☒

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 6/4/2013 8:00 AM ☒ PM ☐

**RECEIVED**

**JUN 12 2013**

**DIV. OF OIL, GAS & MINING**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-45555
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GMBU I-2-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1611 FNL 2296 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 02 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047527600000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/2/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 07/02/2013 at 15:00 hours.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 02, 2013		
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/2/2013	



Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. ML-45555			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. GMBU (GRRV)			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						8. Lease Name and Well No. GMBU I-2-9-17			
3a. Phone No. (include area code) (435) 646-3721						9. API Well No. 43-047-52760			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 1611' FNL & 2296' FEL (SW/NE) SEC. 2, T9S, R17E (ML-45555)  At top prod. interval reported below 1325' FNL & 1504' FEL (NW/NE) SEC. 2, T9S, R17E (ML-45555)  At total depth 1196' FNL & 1199' FEL (NE/NE) SEC. 2, T9S, R17E (ML-45555)						10. Field and Pool or Exploratory MONUMENT BUTTE			
						11. Sec., T., R., M., on Block and Survey or Area SEC. 2, T9S, R17E			
						12. County or Parish UINTAH		13. State UT	
14. Date Spudded 05/17/2013		15. Date T.D. Reached 06/06/2013		16. Date Completed 07/02/2013 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* 5043' GL 5053' KB			
18. Total Depth: MD 6245' TVD 6115'		19. Plug Back T.D.: MD 6178' TVD		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	339'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6224'		460 50/50 POZ		SURFACE	
						240 PREMLITE			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT @ 6078'	TA @ 5979'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Green River		4276' MD	6027' MD	4276-6027' MD		0.34"	80		
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
4276-6027' MD		Frac w/ 229539#s 20/40 white sand in 3331 bbls of Lightning 17 fluid, in 5 stages.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/25/13	7/5/13	24	→	100	40	124			2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD AND USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3854' 4038'
				GARDEN GULCH 2 POINT 3	4157' 4428'
				X MRKR Y MRKR	4664' 4700'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4837' 5087'
				B LIMESTONE MRK CASTLE PEAK	5233' 5680'
				BASAL CARBONATE	6110'

## 32. Additional remarks (include plugging procedure):

The above well began producing during the drilling process, on 06/25/2013. The well continued to flow during the completion process, and test data was taken ten (10) days following initial production, on 07/05/2013. The well was placed on production/on pump on 07/02/2013.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling Daily Activity

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Jennifer Peatross

Title Production Technician

Signature

Date 07/31/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

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RECEIVED: Jan. 30, 2014



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 2 T9S, R17E**

**I-2-9-17**

**Wellbore #1**

**Design: Actual**

## **End of Well Report**

**06 June, 2013**





# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well I-2-9-17  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Project:** USGS Myton SW (UT), DUCHESSNE COUNTY, UT, USA  
**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Utah Central Zone

**System Datum:**

Mean Sea Level

**Site:** SECTION 2 T9S, R17E, SEC 2 T9S, R17E  
**Site Position:**  
**From:** Lat/Long  
**Position Uncertainty:** 0.0 ft

**Northings:** 7,194,800.00 ft  
**Easting:** 2,067,293.09 ft  
**Slot Radius:** \*  
**Latitude:** 40° 3' 41.746 N  
**Longitude:** 109° 58' 29.067 W  
**Grid Convergence:** 0.98 °

**Well:** I-2-9-17, SHL LAT: 40 03 46.08 LONG: -109 58 21.29  
**Well Position:** +N-S 0.0 ft  
**Position Uncertainty:** +E-W 0.0 ft  
**Wellbore:** Wellbore #1  
**Model Name:** IGRF2010  
**Sample Date:** 1/11/2012  
**Declination:** 11.21  
**Dip Angle:** 65.81  
**Field Strength:** 52.240  
**Wellhead Elevation:** 5,053.0 ft  
**Ground Level:** 5,043.0 ft  
**Latitude:** 40° 3' 46.080 N  
**Longitude:** 109° 58' 21.290 W

**Design:** Actual  
**Audit Notes:**  
**Version:** 1.0  
**Phase:** ACTUAL  
**Vertical Section:** Depth From (TVD) (ft) +N-S (ft) +E-W (ft) Direction (°)  
 0.0 0.0 0.0 69.11  
**Tie On Depth:** 0.0

**Survey Program:** Date 6/6/2013  
**From (ft)** **To (ft)** **Survey (Wellbore)** **Tool Name** **Description**  
 375.0 6,245.0 Survey #1 (Wellbore #1) MWD MWD - Standard



# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate References:**  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	NIS (ft)	EW (ft)	Dlog (°/100ft)	Built (°/100ft)	Turn (°/100ft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	375.0	0.40	209.60	375.0	-1.0	-1.1	-0.6	0.11	0.11	0.00
	405.0	0.40	212.80	405.0	-1.2	-1.3	-0.8	0.07	0.00	10.67
	436.0	0.40	121.16	436.0	-1.2	-1.5	-0.7	1.85	0.00	-295.61
	466.0	0.48	94.50	466.0	-1.0	-1.5	-0.5	0.72	0.27	-88.87
	497.0	1.00	84.50	497.0	-0.6	-1.5	-0.1	1.72	1.68	-32.26
	527.0	1.30	77.80	527.0	-0.1	-1.4	0.5	1.09	1.00	-22.33
	557.0	1.40	80.60	557.0	0.6	-1.3	1.2	0.40	0.33	9.33
	588.0	1.40	81.40	588.0	1.4	-1.2	1.9	0.06	0.00	2.58
	618.0	1.30	83.30	618.0	2.1	-1.1	2.6	0.37	-0.33	6.33
	648.0	1.55	80.00	648.0	2.8	-1.0	3.4	0.88	0.83	-11.00
	678.0	2.15	75.20	677.9	3.8	-0.7	4.3	2.06	2.00	-16.00
	708.0	2.75	74.10	707.9	5.0	-0.4	5.5	2.01	2.00	-3.67
	738.0	3.00	73.57	737.9	6.5	0.0	7.0	0.84	0.83	-1.77
	768.0	3.47	70.27	767.8	8.2	0.5	8.6	1.68	1.57	-11.00
	798.0	3.80	69.00	797.8	10.1	1.2	10.4	1.13	1.10	-4.23
	828.0	4.10	70.58	827.7	12.2	1.9	12.3	1.06	1.00	5.27
	858.0	4.40	72.10	857.6	14.4	2.6	14.4	1.07	1.00	5.07
	888.0	4.60	73.20	887.5	16.8	3.3	16.7	0.73	0.67	3.67
	919.0	5.00	72.50	918.4	19.4	4.1	19.2	1.30	1.29	-2.26
	949.0	5.50	72.80	948.3	22.1	4.9	21.8	1.67	1.67	1.00
	979.0	6.10	72.30	978.1	25.1	5.8	24.7	2.01	2.00	-1.67
	1,010.0	6.60	70.00	1,008.9	28.5	6.9	27.9	1.81	1.61	-7.42
	1,053.0	6.90	67.30	1,051.6	33.6	8.8	32.6	1.02	0.70	-6.28
	1,097.0	7.70	68.10	1,096.3	39.2	10.9	37.8	1.83	1.82	1.82
	1,141.0	7.70	69.60	1,138.9	45.1	13.0	43.3	0.46	0.00	3.41
	1,185.0	8.00	68.80	1,182.5	51.1	15.2	48.9	0.73	0.68	-1.82





# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (U7)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well I-2-9-17  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azl (azimuth) (°)	TVD (ft)	V. Sec (ft)	NS (ft)	EW (ft)	D Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	1,229.0	8.80	67.90	1,226.0	57.5	17.5	54.9	1.84	1.82	-2.05
	1,272.0	9.90	70.00	1,268.4	64.5	20.0	61.4	2.68	2.56	4.88
	1,316.0	10.80	70.60	1,311.7	72.4	22.7	68.8	2.06	2.05	1.36
	1,360.0	11.40	69.30	1,354.9	80.9	26.6	76.6	1.48	1.36	-2.95
	1,404.0	12.00	67.50	1,398.0	88.8	28.9	85.1	1.60	1.36	-4.09
	1,448.0	12.30	66.50	1,441.0	98.1	32.5	93.6	0.83	0.68	-2.27
	1,492.0	12.40	66.30	1,484.0	108.5	36.3	102.2	0.25	0.23	-0.45
	1,535.0	12.40	66.50	1,528.0	117.7	40.0	110.7	0.10	0.00	0.47
	1,579.0	12.90	66.80	1,568.9	127.3	43.8	119.5	1.15	1.14	0.68
	1,623.0	13.20	68.90	1,611.8	137.2	47.5	128.7	1.28	0.68	4.77
	1,667.0	13.40	70.00	1,654.6	147.4	51.1	138.2	0.73	0.45	2.50
	1,711.0	13.20	69.60	1,697.4	157.5	54.6	147.7	0.50	-0.45	-0.91
	1,755.0	12.90	69.10	1,740.3	167.4	58.1	157.0	0.73	-0.68	-1.14
	1,798.0	13.30	68.90	1,782.1	177.2	61.6	166.1	0.94	0.93	-0.47
	1,842.0	13.60	67.80	1,824.9	187.4	65.4	175.6	0.90	0.68	-2.50
	1,886.0	13.40	67.90	1,867.7	197.7	69.2	185.1	0.46	-0.45	0.23
	1,930.0	13.00	66.20	1,910.6	207.7	73.1	194.4	1.27	-0.91	-3.86
	1,974.0	12.60	64.90	1,953.5	217.4	77.2	203.3	1.12	-0.91	-2.95
	2,017.0	12.50	64.80	1,995.4	228.7	81.1	211.7	0.24	-0.23	-0.23
	2,061.0	12.70	66.20	2,038.4	236.3	85.1	220.5	0.83	0.45	3.18
	2,105.0	12.70	66.70	2,081.3	246.0	89.0	229.3	0.25	0.00	1.14
	2,149.0	12.90	67.80	2,124.2	255.7	92.8	238.3	0.72	0.45	2.50
	2,193.0	12.90	69.00	2,167.1	265.6	96.4	247.5	0.61	0.00	2.73
	2,236.0	13.00	70.10	2,209.0	275.2	99.7	256.5	0.62	0.23	2.56
	2,280.0	13.60	70.90	2,251.8	285.3	103.1	266.0	1.43	1.36	1.82
	2,324.0	13.70	70.80	2,294.6	295.7	106.5	275.8	0.23	0.23	-0.23
	2,368.0	13.20	70.20	2,337.4	305.9	109.9	285.5	1.18	-1.14	-1.36



# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well I-2-9-17  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MID (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	EW (ft)	Drag (ft/100ft)	Build (ft/100ft)	Turn (ft/100ft)
	2,412.0	13.30	69.20	2,380.2	316.0	113.4	294.9	0.57	0.23	-2.27
	2,455.0	13.40	68.70	2,422.0	325.9	117.0	304.2	0.36	0.23	-1.16
	2,499.0	13.20	70.50	2,464.9	336.0	120.5	313.7	1.05	-0.45	4.09
	2,543.0	13.30	71.80	2,507.7	346.1	123.8	323.2	0.71	0.23	2.95
	2,587.0	13.90	68.50	2,550.5	356.5	127.3	333.0	2.23	1.36	-7.50
	2,631.0	14.50	68.50	2,593.1	367.3	131.3	343.0	1.36	1.36	0.00
	2,674.0	14.20	68.20	2,634.8	377.9	135.2	352.9	0.72	-0.70	-0.70
	2,718.0	13.90	68.50	2,677.5	388.6	139.1	362.8	0.70	-0.68	0.68
	2,762.0	13.40	68.50	2,720.2	399.0	142.9	372.5	1.14	-1.14	0.00
	2,806.0	12.60	68.30	2,763.1	408.9	146.6	381.7	1.82	-1.82	-0.45
	2,850.0	11.70	69.90	2,806.1	418.1	149.9	390.3	2.18	-2.05	3.64
	2,894.0	11.20	69.70	2,849.2	426.9	152.9	398.5	1.14	-1.14	-0.45
	2,937.0	11.50	68.34	2,891.4	435.3	155.9	406.4	0.93	0.70	-3.16
	2,981.0	11.60	69.90	2,934.5	444.1	159.1	414.7	0.75	0.23	3.55
	3,025.0	11.90	73.00	2,977.6	453.1	161.9	423.2	1.59	0.68	7.05
	3,069.0	13.05	72.00	3,020.5	462.6	164.8	432.2	2.66	2.61	-2.27
	3,113.0	14.25	76.20	3,063.3	472.9	167.6	442.2	3.54	2.73	9.55
	3,156.0	15.35	76.90	3,104.9	483.8	170.2	452.9	2.59	2.56	1.63
	3,200.0	15.00	75.10	3,147.3	495.2	173.0	464.1	1.33	-0.80	-4.09
	3,244.0	14.55	74.20	3,189.9	506.4	175.9	474.9	1.15	-1.02	-2.05
	3,288.0	15.20	78.60	3,232.4	517.6	178.6	485.9	2.86	1.48	10.00
	3,332.0	15.40	79.60	3,274.8	529.0	180.8	497.3	0.75	0.45	2.27
	3,375.0	15.20	79.70	3,316.3	540.2	182.8	508.4	0.47	-0.47	0.23
	3,419.0	14.90	80.20	3,356.8	551.4	184.8	519.7	0.74	-0.68	1.14
	3,463.0	14.10	79.90	3,401.4	562.2	186.7	530.5	1.83	-1.82	-0.68
	3,507.0	13.80	82.10	3,444.1	572.6	188.4	541.0	1.38	-0.68	5.00
	3,551.0	14.30	79.80	3,486.8	583.1	190.0	551.5	1.70	1.14	-5.23



# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well I-2-9-17  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	EW (ft)	D Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	3,595.0	14.60	78.80	3,529.4	583.9	192.1	562.3	0.89	0.68	-2.27
	3,638.0	14.60	79.00	3,571.0	604.5	194.2	573.0	0.12	0.00	0.47
	3,682.0	14.80	78.00	3,613.6	615.6	196.4	583.9	0.73	0.45	-2.27
	3,726.0	14.60	75.50	3,656.1	626.6	199.0	594.8	1.51	-0.45	-5.68
	3,770.0	14.40	72.50	3,698.7	637.6	202.0	605.4	1.77	-0.45	-6.82
	3,814.0	14.10	71.20	3,741.4	648.4	205.4	615.7	1.00	-0.68	-2.95
	3,857.0	13.60	70.40	3,783.1	658.7	208.7	625.4	1.25	-1.16	-1.86
	3,901.0	12.80	69.90	3,826.0	668.7	212.2	634.8	1.84	-1.82	-1.14
	3,945.0	12.30	68.50	3,868.9	678.3	215.5	643.8	1.33	-1.14	-3.18
	3,989.0	12.50	65.70	3,911.9	687.7	219.2	652.5	1.44	0.45	-6.36
	4,033.0	12.50	65.00	3,954.8	697.3	223.2	661.1	0.34	0.00	-1.59
	4,077.0	13.20	65.10	3,997.7	707.0	227.3	670.0	1.59	1.59	0.23
	4,120.0	13.80	66.10	4,039.6	717.0	231.5	679.1	1.50	1.40	2.33
	4,164.0	13.90	66.80	4,082.3	727.6	235.7	688.8	0.44	0.23	1.59
	4,208.0	13.50	65.60	4,125.0	738.0	239.9	698.3	1.12	-0.91	-2.73
	4,252.0	13.10	63.40	4,167.8	748.0	244.2	707.5	1.47	-0.91	-5.00
	4,296.0	12.90	63.50	4,210.7	757.9	248.7	716.3	0.46	-0.45	0.23
	4,340.0	12.80	63.50	4,253.6	767.6	253.0	725.1	0.23	-0.23	0.00
	4,383.0	12.90	63.20	4,296.5	777.2	257.3	733.6	0.28	0.23	-0.70
	4,427.0	12.70	63.50	4,338.4	786.8	261.7	742.3	0.48	-0.45	0.68
	4,471.0	12.30	64.20	4,381.4	796.3	265.9	750.9	0.97	-0.91	1.59
	4,515.0	11.70	64.50	4,424.4	805.4	269.8	759.1	1.37	-1.36	0.68
	4,559.0	12.00	63.20	4,467.5	814.4	273.8	767.2	0.91	0.68	-2.95
	4,602.0	12.10	63.50	4,509.6	823.4	277.9	775.3	0.27	0.23	0.70
	4,646.0	12.20	65.00	4,552.6	832.6	281.9	783.6	0.75	0.23	3.41
	4,690.0	12.80	67.90	4,595.5	842.1	285.7	792.3	1.97	1.36	6.59
	4,734.0	13.00	68.40	4,638.4	851.9	289.3	801.5	0.52	0.45	1.14



# Payzone Directional

End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 2 T9S, R17E  
**Well:** I-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate References:**  
**TVD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**MD Reference:** I-2-9-17 @ 5053.0ft (NDSI SS #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	EW (ft)	DLog (ft/100ft)	Build (ft/100ft)	Turn (ft/100ft)
	4,778.0	13.18	66.20	4,681.3	861.9	295.2	810.6	1.20	0.41	-5.00
	4,821.0	13.40	65.70	4,723.1	871.8	297.2	819.7	0.58	0.51	-1.16
	4,865.0	13.20	66.10	4,765.9	881.9	301.3	828.9	0.50	-0.45	0.91
	4,909.0	13.10	67.10	4,808.8	891.9	305.3	838.1	0.56	-0.23	2.27
	4,953.0	12.90	68.80	4,851.7	901.8	309.2	847.2	0.48	-0.45	-0.68
	4,997.0	12.60	65.10	4,894.6	911.5	313.1	856.1	1.09	-0.68	-3.86
	5,024.4	12.78	65.36	4,921.3	917.5	315.7	861.5	0.68	0.65	0.94
<b>I-2-9-17 TGT</b>										
	5,040.0	12.88	65.50	4,936.5	920.9	317.1	864.7	0.68	0.65	0.92
	5,084.0	12.30	64.80	4,978.5	930.5	321.1	873.4	1.36	-1.32	-1.58
	5,128.0	11.70	64.30	5,022.5	939.6	325.1	881.6	1.38	-1.36	-1.14
	5,172.0	11.70	64.30	5,065.6	948.5	328.9	889.7	0.00	0.00	0.00
	5,216.0	11.30	67.70	5,108.7	957.3	332.5	897.7	1.79	-0.91	7.73
	5,259.0	11.30	67.00	5,150.9	965.7	335.7	905.5	0.32	0.00	-1.63
	5,303.0	11.60	65.50	5,194.0	974.4	339.3	913.5	0.96	0.68	-3.41
	5,347.0	11.95	64.34	5,237.1	983.3	343.1	921.6	0.96	0.80	-2.64
	5,391.0	12.30	66.10	5,280.1	992.6	346.9	930.0	1.16	0.80	4.00
	5,435.0	12.60	69.40	5,323.0	1,002.0	350.5	938.8	1.75	0.68	7.50
	5,478.0	12.60	69.40	5,365.0	1,011.4	353.8	947.5	0.00	0.00	0.00
	5,522.0	13.10	70.27	5,407.9	1,021.2	357.2	956.7	1.22	1.14	1.98
	5,566.0	13.18	70.00	5,450.8	1,031.2	360.6	966.1	0.23	0.18	-0.61
	5,610.0	12.80	71.00	5,493.6	1,041.1	363.9	975.5	1.00	-0.86	2.27
	5,654.0	12.70	71.90	5,536.5	1,050.8	367.0	984.7	0.51	-0.23	2.05
	5,698.0	12.80	71.70	5,579.5	1,060.5	370.0	993.9	0.25	0.23	-0.45
	5,741.0	13.60	69.40	5,621.3	1,070.3	373.3	1,003.1	2.23	1.86	-5.35
	5,785.0	14.00	67.60	5,664.1	1,080.8	377.2	1,012.9	1.33	0.91	-4.09
	5,829.0	13.40	67.30	5,706.6	1,091.2	381.1	1,022.5	1.37	-1.36	-0.68



# Payzone Directional End of Well Report



Company: NEWFIELD EXPLORATION  
Project: USGS Mylon SW (UT)  
Site: SECTION 2 T9S, R17E  
Well: I-2-9-17  
Wellbore: Wellbore #1  
Design: Actual

Local Co-ordinate Reference: Well I-2-9-17  
TVD Reference: I-2-9-17 @ 5053.0ft (NDSI SS #2)  
MD Reference: I-2-9-17 @ 5053.0ft (NDSI SS #2)  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	5.873.0	12.60	67.50	5.748.7	1,101.1	385.0	1,031.7	1.82	-1.82	0.45
	5.917.0	12.00	66.70	5.792.7	1,110.5	388.6	1,040.3	1.42	-1.36	-1.82
	5.960.0	12.00	65.50	5.834.7	1,118.4	392.2	1,048.5	0.58	0.00	-2.79
	6.004.0	11.90	64.80	5.877.8	1,128.5	396.0	1,056.7	0.40	-0.23	-1.59
	6.048.0	11.60	65.60	5.920.8	1,137.4	399.8	1,064.9	0.78	-0.68	1.82
	6.092.0	10.90	65.50	5.964.0	1,146.0	403.4	1,072.7	1.59	-1.59	-0.23
	6.136.0	10.70	63.60	6.007.2	1,154.2	406.9	1,080.1	0.93	-0.45	-4.32
	6.180.0	9.90	64.70	6.050.5	1,162.1	410.3	1,087.2	1.87	-1.82	2.50
	6.193.0	9.70	64.40	6.063.3	1,164.3	411.3	1,089.2	1.59	-1.54	-2.31
	6.245.0	8.90	63.20	6.114.6	1,172.6	415.0	1,096.8	1.58	-1.54	-2.31


Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

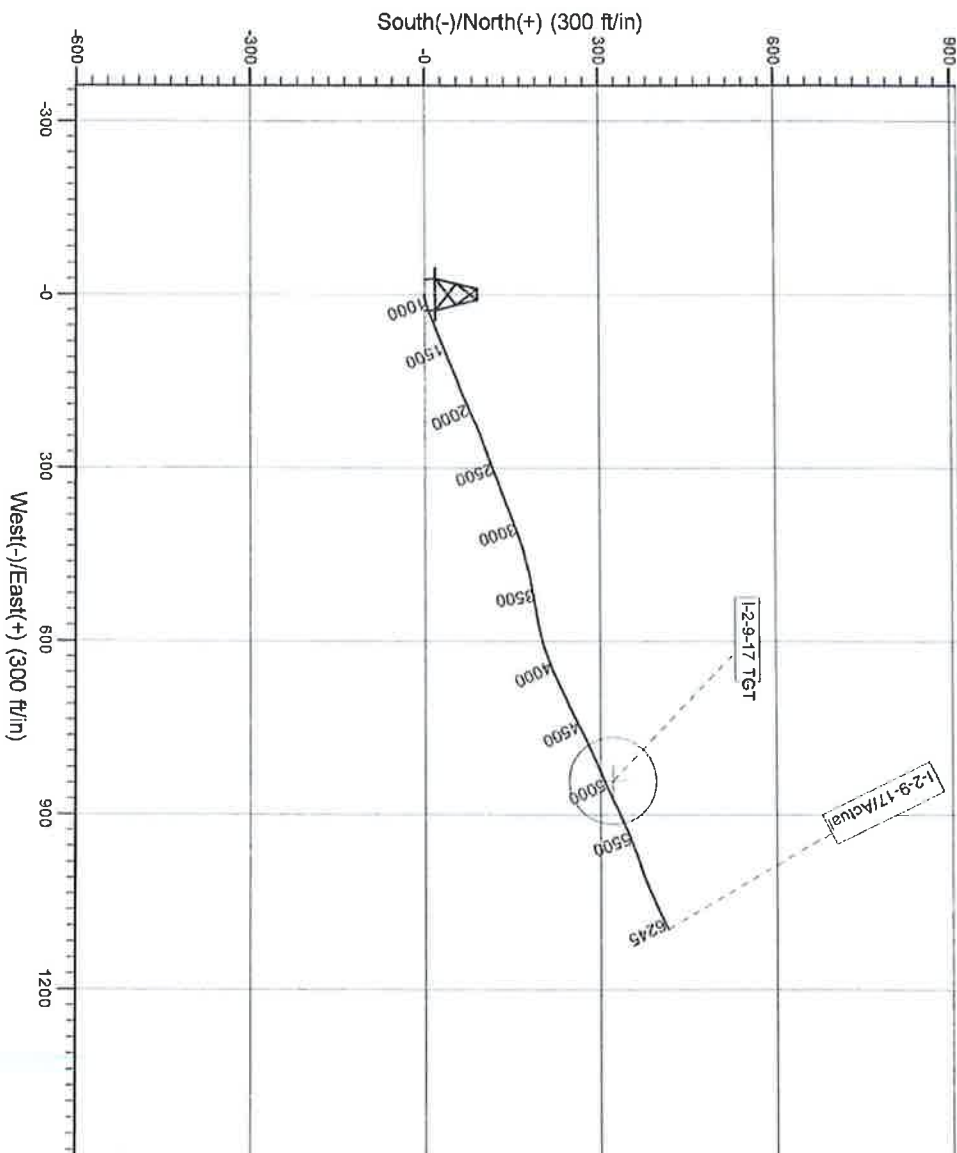
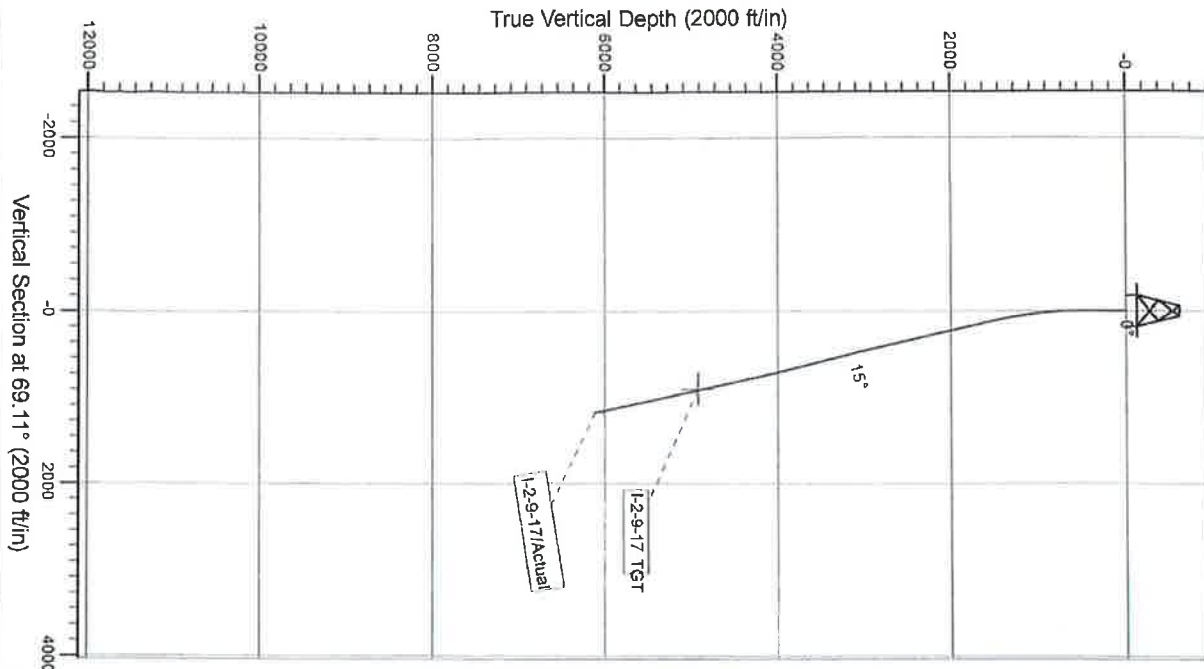


Project: USGS Myton SW (UT)  
 Site: SECTION 2 T9S, R17E  
 Well: 1-2-9-17  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to True North  
 Magnetic North: 11.21°

Magnetic Field  
 Strength: 52239.6nT  
 Dip Angle: 65.81°  
 Date: 1/11/2012  
 Model: IGRF2010



Design: Actual (1-2-9-17/Wellbore #1)

Created By: *David Wolf* Date: 9:09, June 06 2013

THIS SURVEY IS CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND IS SUPPORTED  
 BY ACTUAL FIELD DATA



**Daily Activity Report****Format For Sundry****GMBU I-2-9-17****5/1/2013 To 9/30/2013****6/14/2013 Day: 1****Completion**

Rigless on 6/14/2013 - RU BOP's & valve. Log well. Test BOP's. Test casing. Perforate 1st stage. - RU S&S testers. RU test unit to 4500 psi for 5 min. Test void on BOP's to 1850 psi for 5 min. Test casing, frac valve & 2-1/16" & Lo-Torc valve to 250 low for 5 min. 4300 psi high for 30 min. Test BOP's to 4300 psi for 10 min. AOI Mark Thies witnessed all tests. - RU Perforators LLC. WLT, crane & packoff. RIH w/ CBL tools. Run CBL w/ 0 psi on casing. TD was 6168' w/ cmt @ surface. - RU WLT, crane & pack-off. RIH w/ 3-1/8" disposable perf guns (16 gram, .34"EH, 1207,21" pen) 3 spf. Perforate CP5 sds @ 6021-27' w/ ttl of 18 shots. RD WLT. SIFN w/ 147 bbls EWTR. - Held safety meeting & discussed sharing location, JSA's & location hazards. RU BOP's & frac valve.

**Daily Cost: \$0****Cumulative Cost: \$24,531****6/18/2013 Day: 2****Completion**

Rigless on 6/18/2013 - Frac & Flow Back Well - 2nd Stage RU Baker Hughes. Safety Meeting. JSA. Press test Lines 5000psi. Open Well @ 1533 psi Break down CP-2/1 Formation (12 holes) @ 3658 psi W/ 6.4 bbls 7% KCL water Pump 46 BBls 7% KCL to get rate & Xlink Pump 15 BBls Pad, 81 BBls 1# to 4# 20/40 Sand (ramped) Pump 154 bbls 5# to 6# 20/40 Sand (ramped) Pump 40 BBls 6# Sand, 12 bbls 15% HCL. Pump 138.7 BBls 7% KCL water Flush. ISIP 1802 psi. FG.76 Max Press 2875 psi, Avg press 2434 psi. Max Rate 39 bpm, Avg rate 38 bpm. 49,801# 20/40 White Sand In Formation. 493 total bbls pumped - 3rd Stage RU Baker Hughes. Safety Meeting. JSA. Press test Lines 5000psi. Open Well @ 1409 psi Break down A-3 Formation (18 holes) @ 2579 psi W/ 2 bbls 7% KCL water Pump 58 BBls 7% KCL to get rate & Xlink Pump 15 BBls Pad, 113 BBls 1# to 4# 20/40 Sand (ramped) Pump 216 bbls 5# to 6# 20/40 Sand (ramped) Pump 54 BBls 6# Sand, 12 bbls 15% HCL. Pump 130 BBls 7% KCL water Flush. ISIP 2358 psi. FG.89 Max Press 3206 psi, Avg press 2778 psi. Max Rate 40 bpm, Avg rate 39 bpm. 69,309# 20/40 White Sand In Formation. 600 total bbls pumped - 4th Stage. RU Perforators W/L Press test Lub 4000 psi Open well @ 1700 psi. RIH W/ CFT Plug & 3-1/8" Csg Guns (2 SPF) Set CFT Plug @ 5120' & Perforate the The C-Sand Formation @ 5044-48', 5038-40', 5032-36', 20 Shots, POOH CWI RD W/L. - 4th Stage RU Baker Hughes. Safety Meeting. JSA. Press test Lines 5000psi. Open Well @ 1346 psi Break down C-SAND Formation (20 holes) @ 2104 psi W/ 1.3 bbls 7% KCL water Pump 32 BBls 7% KCL to get rate & Xlink Pump 15 BBls Pad, 64 BBls 1# to 4# 20/40 Sand (ramped) Pump 123 bbls 5# to 6# 20/40 Sand (ramped) Pump 30 BBls 6# Sand, 12 bbls 15% HCL. Pump 120.8 BBls 7% KCL water Flush. ISIP 2715 psi. FG.99 Max Press 3378 psi, Avg press 2893 psi. Max Rate 40 bpm, Avg rate 39 bpm. 40,056# 20/40 White Sand In Formation. 397 total bbls pumped - 5th Stage. RU Perforators W/L Press test Lub 4000 psi Open well @ 1700 psi. RIH W/ CFT Plug & 3-1/8" Csg Guns (2 SPF) Set CFT Plug @ 4490' & Perforate the GB-6 formation @ 4410-14', The GB-4 Formation @ 4276-78', 12 Shots, POOH CWI RD W/L. - RU Baker Hughes. Safety Meeting. JSA. Press test Lines 5000psi. Open Well @ 49 psi Break down CP-5 Formation (12 holes) @ 2464 psi W/ 6 bbls Slickwater @ 4.8 BPM. ISIP 2310 psi FG .91 (1 min 1507 psi) (4 min 1364 psi). Pump 30 bbls 15% HCL, 100 BBls Slickwater Prepad to get rate, Pump 325 BBls Slickwater Pad, 98 BBls .750# 20/40 Sand, 149 bbls 1# 20/40 Sand 91 bbls 1.25# 20/40 Sand, 100 bbls Slickwater sweep, 60 bbls 1.25# 20/40 Sand, 127 bbls 1.5# 20/40 Sand, 22 bbls 20/40 Sand, 100 bbls Slickwater sweep, 22 bbls 1.75# 20/40 Sand, 39 bbls 2# 20/40 Sand, 168.4 BBls Slickwater flush W/ 12 bbls 15% HCL. ISIP 2857 psi. FG .91 Max Press 3665 psi, Avg press 3222 psi. Max Rate 38 bpm, Avg rate 29 bpm. 86,195# 20/40

White Sand In Formation. 739 total bbls pumped - 2nd Stage. RU Perforators W/L Press test Lub 4000 psi Open well @ 1600 psi. RIH W/ CFT Plug & 3-1/8" Csg Guns (2 SPF) Set CFT Plug @ 5860' & Perforate the CP-2 formation @ 5785-89', The CP-1 Formation @ 5758-60', 12 Shots, POOH CWI RD W/L. - SICP 1625 psi open well to pit on 20/64 choke flow back @ 3 BPM - 5th Stage RU Baker Hughes. Safety Meeting. JSA. Press test Lines 5000psi. Open Well @ 1470 psi Break down GB-6/4 Formation (12 holes) @ 2293 psi W/ 1.3 bbls 7% KCL water Pump 43 BBls 7% KCL to get rate & Xlink Pump 15 BBls Pad, 56 BBls 1# to 4# 20/40 Sand (ramped) Pump 120 bbls 5# to 6# 20/40 Sand (ramped) Pump 60 BBls 6# Sand, Pump 102.8 BBls 7% KCL water Flush. ISIP 2312 psi. FG.98 Max Press 3610 psi, Avg press 2988 psi. Max Rate 40 bpm, Avg rate 40 bpm. 38,692# 20/40 White Sand In Formation. 386 total bbls pumped - 3rd Stage. RU Perforators W/L Press test Lub 4000 psi Open well @ 1525 psi. RIH W/ CFT Plug & 3-1/8" Csg Guns (2 SPF) Set CFT Plug @ 5510' & Perforate the A-3 formation @ 5437-40', 5429-32', (last Gun Did not fire) POOH CCL Locator shorted out Replace Collar Locator RIH Perforate @ 5422-25', 18 Shots, POOH CWI RD W/L.

**Daily Cost:** \$0

**Cumulative Cost:** \$178,502

**7/1/2013 Day: 3**

**Completion**

Nabors #1423 on 7/1/2013 - Set KP. ND BOP. NU BOPs. Press tes. Unload Tbg. RDMO. PU & TIH drill plugs - CREW TRAVEL AND JSP MEETING - RIG DOWN - SPOT IN ON I-2-9-17 - RIG UP - - SICP 0 PSI - OPEN WELL - PREP AND TALLY TBG - R/U WORKFLOOR - CHANGE OVER FOR TBG - - M/U 4 3/4" CHOMP MILL - RIH W/ 1 JT, X NIPPLE, 134 JTS - TAG KILL PLUG @ 4170' - - STRIP OFF WIPING RUBBER - STRIP ON DRILLING RUBBER - CATCH CIRCULATION - DRILL KILL PLUG - 30 MINUTES - HANG SWIVEL BACK - P/U TBG - TAG 1ST PLUG @ 4450' - UNHANG SWIVEL - DRILL PLUG - 25 MINUTES - HANG BACK SWIVEL - P/U TBG TAG FILL @ 5070' - UNHANG SWIVEL - CLEAN OUT 40' OF SAND - DRILL 2ND PLUG - 30 MINUTES - HANG BACK SWIVEL - P/U TBG - TAG FILL @ 5500' - UNHANG SWIVEL - CLEAN OUT 10' OF SAND - DRILL 3RD PLUG - 35 MINUTES - CIRCULATE WELL CLEAN - SWIFW - R/U PUMPING UNIT

**Daily Cost:** \$0

**Cumulative Cost:** \$190,875

**7/2/2013 Day: 4**

**Completion**

Nabors #1423 on 7/2/2013 - Finish Clean out Trip & Land tbg - SICP 450 PSI - SITP 300 PSI - PUMP 20 BBL KILL DOWN TBG - P/U TBG TAG FILL @ 5820' - CLEAN OUT 45' OF FILL TO PLUG @ 5865' - DRILL PLUG - 20 MINUTES - SWIVEL IN JTS - TAG FILL @ 5980' - CLEAN OUT SAND TO PBTD @ 6177' - CIRCULATE WELL CLEAN W/ 200 BBLS 7% KCL - SET TAC FROM FLOOR - LAND TBG ON DONUT - R/D WORK FLOOR - N/D DOUBLE GATE PIPE RAMS - N/D SINGLE GATE BLIND RAMS - UNLAND TBG - REMOVE SUB - RELAND TBG IN 18000#'S TENSION - N/U WELLHEAD AND FLOW LINE - CHANGE OVER FOR RODS - SWIFN - - M/U BHA - RIH W/ PRODUCTION - N/C, 2 JTS, S/N, 1 JT, TAC, 193 JTS - TAC SET @ 5979.09' - S/N SET @ 6013.29' - EOT @ 6077.68' - RACK OUT POWER SWIVEL - L/D 4 JTS - 9 JTS TOTAL OUT- POOH W/ 196 JTS - L/D BIT AND BIT SUB - - CREW TRAVEL AND JSP MEETING

**Daily Cost:** \$0

**Cumulative Cost:** \$197,950

**7/3/2013 Day: 5**

**Completion**

Nabors #1423 on 7/3/2013 - RIH W/ Rods RDMO - ROAD RIG TO R-33-8-17 SPOT IN T SILL - N/D FRAC VALVE - N/U DOUBLE GATE BOPS W/ WINCH TRUCK SPOT RIG IN - RIG UP - - RIG DOWN - RACK OUT PUMP AND HARDLINE - CLEAN UP LOCATION - PRE TRIP - - FILL TBG W/ 3 BBLS - STROKE TEST PUMP TO 800 PSI - HANG HORSE HEAD - PWOP @ 2 PM W/ 144"

STROKE LENGTH @ 4.5 SPM - - P/U AND PRIME PUMP - RIH W/ PRODUCTION - (30) 7/8" 8  
PER GUIDED, (124) 3/4" 4 PER GUIDED, (85) 7/8" 4 PER GUIDED, (1) 7/8" x 2' PONY - P/U  
POLISH ROD - SEAT PUMP - - Crew travel. Safety Meeting JSA. - SICP 400 PSI - SITP 200 PSI  
- BLEED CSG OFF - FLUSH TBG W/ 30 BBLS -

**Daily Cost:** \$0

**Cumulative Cost:** \$277,030

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**Pertinent Files: Go to File List**